Operating instructions

TV
- Spheros R 37
- Spheros R 32
- Spheros R 26
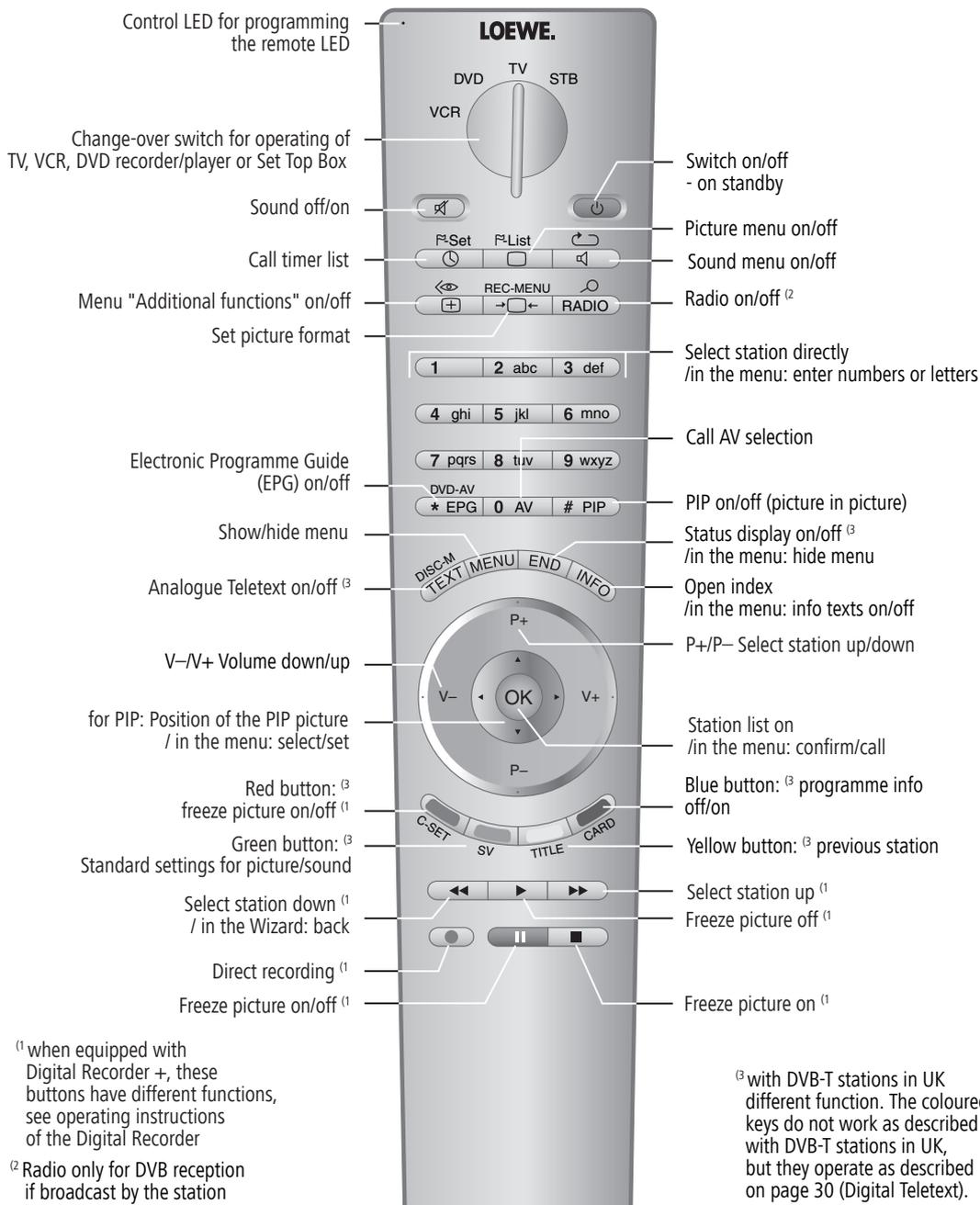
LOEWE.

Contents

Remote control - TV functions

LOEWE.

Control LED for programming the remote LED

DVD / TV / STB / VCR

Change-over switch for operating of TV, VCR, DVD recorder/player or Set Top Box

Sound off/on

Call timer list — ⏱ Set

Menu "Additional functions" on/off — REC-MENU

Set picture format

Switch on/off - on standby

Picture menu on/off

Sound menu on/off

Radio on/off [2]

Select station directly /in the menu: enter numbers or letters

1 | 2 abc | 3 def
4 ghi | 5 jkl | 6 mno
7 pqrs | 8 tuv | 9 wxyz
DVD-AV
* EPG | 0 AV | # PIP

Electronic Programme Guide (EPG) on/off

Show/hide menu

Analogue Teletext on/off [3]

Call AV selection

PIP on/off (picture in picture)

Status display on/off [3] /in the menu: hide menu

Open index /in the menu: info texts on/off

DISC-M TEXT | MENU | END | INFO

V−/V+ Volume down/up

P+

P+/P− Select station up/down

V− OK V+

for PIP: Position of the PIP picture / in the menu: select/set

P−

Station list on /in the menu: confirm/call

Red button: [3] freeze picture on/off [1]

Green button: [3] Standard settings for picture/sound

C-SET | SV | TITLE | CARD

Blue button: [3] programme info off/on

Yellow button: [3] previous station

Select station down [1] / in the Wizard: back

◄◄ ► ►►

Select station up [1]

Freeze picture off [1]

Direct recording [1]

● | ‖ | ■

Freeze picture on/off [1]

Freeze picture on [1]

[1 when equipped with Digital Recorder +, these buttons have different functions, see operating instructions of the Digital Recorder

[2 Radio only for DVB reception if broadcast by the station

[3 with DVB-T stations in UK different function. The coloured keys do not work as described with DVB-T stations in UK, but they operate as described on page 30 (Digital Teletext).

Control units Spheros R 26 and R 32

Display:
red = standby
green = operation
orange = operation without screen display
(radio mode, EPG data capture
or timer recording)

Call the menu,
in the menu: up ▲

M

Switch TV set on/off
to standby

Station down,
in the menu: left ◄

−

+

Station up,
in the menu: right ▶

DR+

Radio on/off [1] (back to TV mode),
switching on the radio
from standby,
in the menu: down ▼

R

Display DR+ : [2]
white = Digital Recorder integrated, but not active
(no recording, no play)
green = Digital Recorder active
(timeshift or archive playback)
red = Digital Recorder active
(archive recording)

[1] Radio only for DVB reception, provided the station broadcasts this.
Otherwise, switch over to an audio input.
[2] Only for sets with a Digital Recorder

Control unit Spheros R 37

Display:
red: standby
green: operation
green and red:
timer recording,
EPG data capture
or radio mode

Common Interface

Headphones connection

S-VHS connection (AVS)
(i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

Call the menu,
in the menu: up/down ▲ ▼

Station down,
in the menu: left ◄

Station up,
in the menu: right ▶

Connections to rear panel - Spheros R 26

Common interface

Headphone connection

S-VHS connection (AVS)
(i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

Mains switch

Center audio input (analogue)

Antenna/cable
analogue/digital

Audio input left/right (analogue)

Audio output left/right (analogue)

Satellite connection socket [1]

Euro-AV-
socket1

Euro-AV-
socket2

Component
video inputs
(Cb/Pb–Cr/Pr–Y)

Socket for
power cable

Service socket

VGA/XGA input

HDMI (DVI) input

Digital audio output

Digital audio input

[1] Digital satellite tuner can be retrofitted (not in UK version).

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Connections to rear panel - Spheros R 32 and R 37

Common Interface

Headphones connection

S-VHS connection (AVS)
(i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

Call the menu, (4
in the menu:
up/down ▲ ▼

Station down, (4
in the menu: left ◄

Station up, (4
in the menu: right ▶

Mains switch

Antenna/cable PIP tuner (1
or satellite antenna
(Sat tuner 1) (2

Satellite antenna
(Sat tuner 2) (3

Center Audio input (analogue)

Audio input left/right (analogue)

Audio output left/right (analogue)

Rotating stand control

Antenna/cable
analogue/digital
(tuner 1)

Euro-AV-
socket 1

Euro-AV-
socket 2

Component
video inputs
(Cb/Pb–Cr/Pr–Y)

Socket for
power cable

Service socket

VGA/XGA input

HDMI (DVI) input

Digital audio output

Digital audio input

Antenna output PIP tuner (1
connect to tuner 1

(1 Can be retrofitted. This is already integrated in sets with a digital recorder.

(2 Digital satellite tuner can be retrofitted (not in UK version).

(3 Can be retrofitted for sets with a digital recorder.

(4 Only for Spheros R 37.

Welcome

Thank you!

At Loewe, we combine the highest standards of technology, design and user friendliness. This applies equally for TV, video and accessories.

Your new TV set is ideally equipped for the TV standard of the future - "HDTV" (High Definition Television). With its high-resolution screen and the future-proof digital interfaces HDMI, you have the option to view HD content with excellent picture quality. It therefore carries the European quality mark "HD ready".

Digital TV is steadily spreading via terrestrial reception, in the cable network and via satellite. Loewe supplies sets equipped with DVB-T and DVB-C (DVB-C not for UK). A digital satellite tuner (DVB-S) can be retrofitted. The DVB integrated within the TV set is operated via the TV set menus using the remote control.

We have designed this TV set so that it is easy to operate by using menus. Information about settings in menus is shown automatically; this enables you to understand the context quickly.

You will find the answers to many of your technical queries in the index of your TV. If you want to operate the TV, you can access functions directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual only explains the most important operating steps.

Integrated features

The maximum equipment is described in these operating instructions (without optional retrofit kits). Functions indicated by * are not available in all TV sets. Menu contents may differ from the ones shown, depending on how your TV is equipped.

You can display how your set is equipped in the "Integrated features" index (press the **INFO** button in the TV mode if no menu is displayed; the "Integrated features" menu item is also displayed in the index before the initial letter A). There are separate operating instructions for Digital Recorder Plus with the additional DVB satellite tuner.

Scope of delivery

- LCD-TFT TV set
- RC3 remote control with 2 batteries
- Table stand
- Marketing and service card
- Fabric hose
- Screen cleaner set (only for Spheros R32/37)
- These operating instructions

Transporting

Only transport the unit in an upright position. Hold the set by the top and bottom edges of the housing. The LCD screen is made of glass and/or plastic and may break if not handled carefully. Should the LCD screen become damaged or should the liquid crystal begin to leak, then it is imperative you wear rubber gloves when removing the set. Should the liquid come in contact with your skin, thoroughly rinse with water immediately.

Installation options

As a desktop unit

Use the stand included in delivery. There are assembly instructions included with the stand. First read these assembly instructions and then set up your set.

As a rotating desktop unit for Spheros R 32/37

- Manual rotating plate for table stand TS51, Loewe order no. 89417001
- Table stand Motor Unit, Loewe order no. 88197B51.
  You also require an adapter kit, Loewe order no. 89117A00.

As a wall-mounted unit

- Wall holder WM52 for Spheros R 26, Loewe order no. 64493A00.
- Wall holder WM53 for Spheros R 32/37, Loewe order no. 63493A10.

As a free-standing unit mounted on a rack for Spheros R 32/37

- Flat TV F-Stand 3, Loewe order no. 64498A00.
- Spheros Rack 1, Loewe order no. 58490A01/M01.

As a rotating, freestanding unit mounted on a rack for Spheros R 32/37

- Spheros Rack Cube 1, Loewe order no. 61493A00/M00 + A30/M30.
- Spheros Rack Cube 1 TV, Loewe order no. 62497A00/M00 + A30/M30.
- Spheros Rack Cube 2, Loewe order no. 61494A30/M30.

You also require an adapter kit for the Cube Racks, Loewe order no. 89117A00.

Welcome

Note on the LCD screen

The TV set with an LCD screen you have purchased meets the highest quality requirements and has been tested for pixel errors. Despite the utmost caution in production of the displays, it cannot be totally ruled out that some of the pixels might be defective for technological reasons. Please understand that such effects cannot be considered a unit defect as defined by the warranty as long as they are within the limits specified by the standard.

Cleaning

Use only a soft, clean, damp cloth to clean the TV set, the screen and remote control (do not use any caustic or abrasive cleaning agents).
Use the cleaning cloth and cleaning agent included for this purpose (only for Spheros R32/37).

Note: The front screen is to be removed only by a specialist dealer.

Disposal

Packing and box

You have chosen a long lasting technical product of very high quality. We have paid a fee to authorised recyclers who will collect the packing from your dealer for disposal, pursuant to domestic regulations. Nevertheless, we recommend you to keep the original box and packing material for optimum protection if you have to transport the set.

The set

Attention: The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. Hence, all used electronic devices are to be disposed of separately. Please do not dispose of this set in the normal household rubbish.
You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. You can find out more about recycling (also for countries outside the EU) from your local government.

For your safety

For your safety and to avoid unnecessary damage to your TV set, please read and observe the following safety instructions:

• This TV set is designed exclusively for reception and reproduction of video and audio signals.

• This equipment is designed for domestic and office environments and must not be used in rooms with high humidity (e.g. bathroom, sauna) or high concentrations of dust (e.g. workshops). If the equipment is used in the open air, ensure that it is protected against moisture (rain, drips, splashes, sprayed water or dew). Do not place any containers filled with liquids or lit candles on top of the TV.
High levels of moisture and concentrations of dust cause leakage currents in the equipment, which can lead to danger of electric shock or fire.
The manufacturer's warranty is only valid for use in the specified permissible environment.

• If you have moved the TV set out of the cold into a warm environment, leave it standing for about an hour since condensation may form.

• This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the power cable provided. Incorrect voltages can damage the equipment.

• Like all electronic equipment, your TV needs air for cooling. Obstruction of the air circulation can cause fires. Therefore the air vents on the back must always be kept free. Please do not place newspapers or cloths on/over the TV.
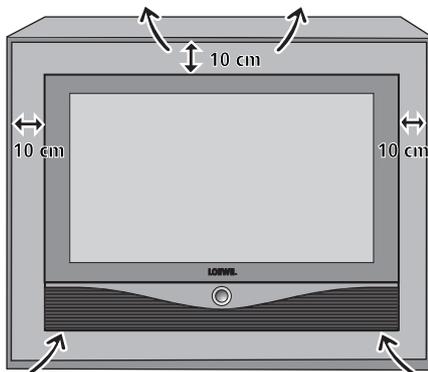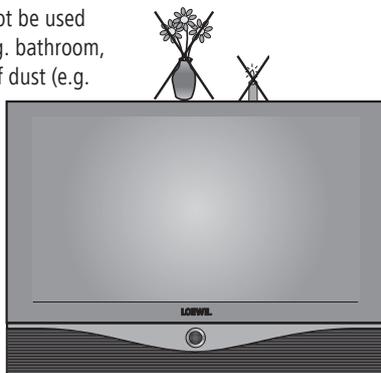
If the TV is placed in a cabinet or on a shelf, leave at least 10 cm at the sides and 10 cm at the top to ensure sufficient air circulation.
Position the set so that it is not exposed to direct sunlight and additional heating from radiators.

• Prevent any metal parts, needles, paper clips, liquids, wax or the like from getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the inside of the TV set, pull out the plug immediately and notify customer service.

• Never remove the back of the TV set yourself. Repair and servicing of your TV set should only be carried out by authorised TV technicians.

• Place the TV set on a level, firm base. The set should not protrude at the front when installing in cabinets or shelves.
Only use original accessories if possible, e.g. Loewe wall holders and stands. Never let children handle the TV unattended.
Do not allow children to play in the immediate vicinity of the TV, they could knock, shift or pull it over and injure someone.
Never leave the TV on unsupervised.

• Do not install the TV where there may be vibrations. Vibrations can lead to material stress.

• Pull out the power and antenna cables during thunderstorms. Surge voltages caused by lightning strikes can damage the TV through the antenna system and the mains. Also remove the antenna and mains plugs in long periods of absence.

• The mains plug of the TV set must be easily accessible so that the set can be disconnected at any time.

• Lay the mains cable in such a way that it will not be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A mains cable with damaged insulation can lead to electric shocks and is a fire risk.

• When removing the mains plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.

First installation

Remote control

Batteries

To insert or change the batteries, press on the arrow. Slide the battery compartment cover downwards and remove it. Insert LR 03 alkaline-manganese batteries (AAA) and ensure that the + and - ends are positioned correctly.

Then push the cover back on from the bottom.

Note on disposing batteries

The batteries provided contain no harmful materials such as cadmium, lead or mercury.
Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

Setting up the remote control for operating the TV
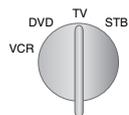
Set the rotary switch to "TV"

How to operate other equipment is described as of page 39.

Connection

Power mains

Remove the cover for the connections.
Connect the TV set to a 220-240V/50- 60 hertz power outlet. Plug the small plug of the mains cable into the mains socket on the rear of the TV set; plug the large mains plug into a mains socket.

Antennas

Plug the antenna plug of your antenna/cable system or the room antenna for DVB-T into the ANT-TV socket (Tuner 1 for Spheros R 32/37).

Spheros R 26

Spheros R 32/37
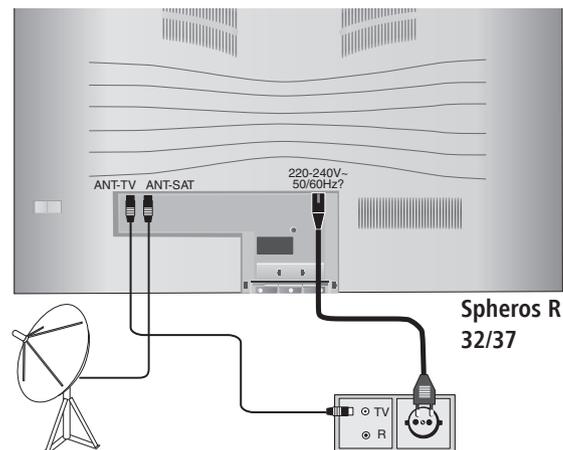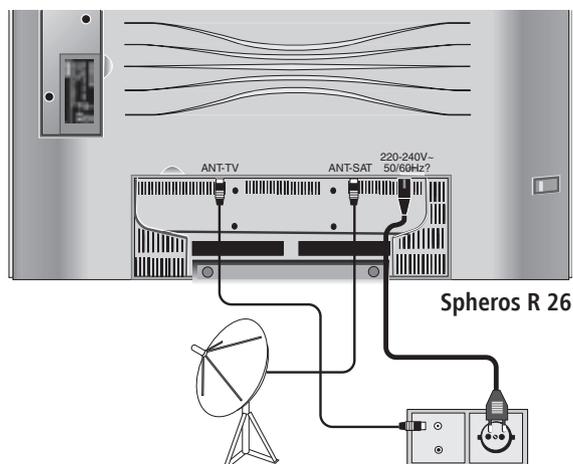
First installation

If the reception conditions are good, then a room antenna may be used for DVB-T. Passive and active room antennas are available on the market. The power is supplied for an active antenna via the antenna connection. For automatic programming or in "TV Menu − Connections − Antenna DVB − Antenna DVB-T," the distribution voltage (5 volts) is to be set correspondingly. It may be practical to use a nondirectional antenna. If the location is outside the normal transmitting range, then a unidirectional antenna may also be used to improve the reception quality.
You can find out more on the digital stations that can be received in your area at your specialist dealer.

If a Spheros R32/37 was retrofitted with a PIP tuner or if this is already integrated in a set with a digital recorder. The PIP tuner output has to be connected with the ANT-TV socket (Tuner 1). See illustration on page 7.

If a Digital Satellite Tuner 1 has been retrofitted, connect your satellite antenna system to the ANT-SAT socket.

If a Digital Satellite Tuner 2 has been retrofitted (only in conjunction with the Digital Recorder+), then connect one antenna cable each, for example from the antenna switch or from the twin LNC, to both SAT sockets.

When laying the cable, use the cable clips affixed beneath the TV set.
Replace the connection cover on the TV set.

Handling the fabric hose

Use the fabric hose included to lay the mains cables, antenna cables or cables from other electronic components systematically; then lead the hose with the cables to the connection boxes. This provides you with an elegant solution when laying cables.

The diameter of the fabric hose increases when you push it together lengthwise (see illustration). This makes it easier for you to push through cables with plugs.

Using the common interface module
(only for sets with CI slot)

In order to be able to receive encrypted digital stations, the common interface module (CI module) and the smartcard both have to be inserted into the corresponding slot of your TV set. You can purchase the CI module and smartcard at your specialist dealer. You can find the slot on the back of your TV set, see the illustration on pages 6/7.

1. Make sure the TV set is switched off with the mains switch on the set, or pull the mains plugs.

2. First push the smartcard into the CI module as far as it will go. Insert it so that the side with the golden contact chip faces the side of the module printed with the supplier's brand logo. Printed arrows indicate how to insert the card. Also follow the installation instructions included with the smartcard.
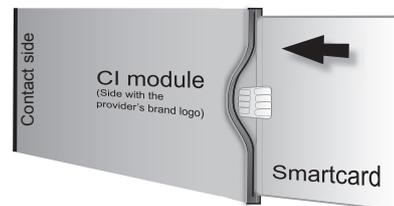
3. Slide the CI module [1] carefully into the slot with the contact side facing the front. The logo on the common interface module should be visible. Make sure the module is not twisted in the process. Do not use force.
    When the module locks, the eject button is pressed outwards.
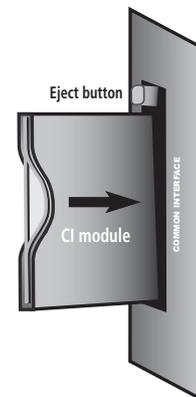
[1] The CI module and the smartcard are not included in the scope of delivery for this set; you can usually obtain them at your specialist dealer.

Switching on

Press the mains switch (for Spheros R 37, the set switches on immediately, the green indicator lamp lights up).

For Spheros R 26/32:
The red indicator on the set now lights up (standby mode).

Switch on the set using the switch integrated in the indicator (for further operating options see page 14).

First installation

Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

By pressing in one of the arrow directions, you can choose the settings ...

... and confirm your settings by pressing OK. You then go to the next menu.

Back to the previous menu.

1. First you have to select the menu language.
2. By pressing the **OK** button, you can call the menu "Connect antenna cable(s)". If you want to receive digital stations via satellite, then choose

   "DVB-S" - confirm using the **yellow** coloured key. If you also want to receive digital terrestrial stations (DVB-T), then select "DVB-T". Also select "Antenna/cable (analogue)" - this way the standard analogue stations can also be searched for and saved. If you can receive digital stations from the cable network, then select "DVB-C" using the **yellow** coloured key.

Initial installation		
Connect antenna cable(s)		
Antenna cable(s) for:	to antenna socket(s):	
Antenna/cable (analogue)	ANT TV	☑ ▭ ⁝
DVB-T	ANT TV	☑
DVB-C	ANT TV	☑
DVB-S	ANT SAT	
	Connect/disconnect	
OK Proceed	◄◄ Back	

3. For the country-specific station sorting, enter the location.
4. If you have selected "DVB-T", you then reach the menu "Antenna DVB-T". If you use an active antenna, then select "yes (5V)".
5. In the "Select satellite installation" menu, make the selection that corresponds to your satellite antenna installation.
   Note: If you have any questions on how your satellite antenna installation is configured and on the antenna settings, consult your antenna installer or your specialist dealer.
6. Select the satellite the antenna is directed at, such as ASTRA1.
   If you only receive one satellite ...
7. In the following menu, specify whether the station search should take place in the high and low band ("Yes") or only in the low band ("No").
   Note: For most satellites, a station search is required in both bands.
8. For the low band and high band, the standard frequencies 9750 MHz (9.75 GHz) and 10600 MHz (10.6 GHz) are preset.
   If your satellite antenna is equipped with an LNC (LNB) with a divergent oscillator frequency, specify the corresponding frequency for low and high band respectively. Note: The correct display of the received frequencies in the "TV menu – Settings – Channels – Manual adjustment" depends upon this setting.
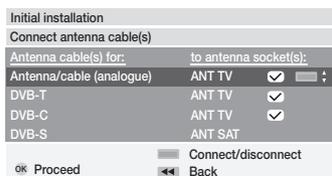
9. You should receive a picture with sound with the settings previously made (only for ASTRA 1 and HOTBIRD). Then press **OK**.
10. In the "Pre-programming" menu, select the factory-set pre-programming to programme the satellite stations quickly.
    To ensure all stations that can be currently received are searched for and saved, select "No" at this point.
    Symbol rates: The standard symbol rates 22000 and 27500 are preset. If you would like to receive stations with different symbol rates, specify the corresponding values here using the numeric buttons on your remote control.
11. Press **OK** to obtain an overview of the settings with which the automatic programming is to take place.
12. Press the **OK** button again and the station search will start. The TV set searches for, sorts and saves all the TV stations that can be received, according to your settings and the antennas connected.
13. When the TV stations are saved, you will receive a corresponding message.
14. Press the **OK** button and the set then searches for the radio stations.
15. The TV set searches for, saves and sorts all radio stations which can be received with your antenna system.
16. Then log on your video equipment, decoder and audio system using the connection wizard and connect these to the TV according to the connection diagram displayed. If you want to connect other equipment later, you can find information as of page 32.

You can repeat the initial installation at any time, e.g. after moving house. Call the index using the **INFO** button (in the TV mode, if no menu is opened). Select the index item "Repeat initial installation" (you will find this listed separately before the letter A). Press **OK** to start the initial installation.

Note: For DVB-T stations in UK the stations are tied to "Logical Channel Numbers" -- "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001.

Station sorting

Note: not with DVB-T stations in UK.
You can change the station sorting that was carried out automatically later at any time, see "TV menu – Settings – Channels – Change stations".

First installation

Directing DVB-T antenna

<u>Note</u>: not with DVB-T stations in UK.
If you use a room antenna to receive one or more DVB-T stations that have picture and sound interference, then you should change the location of where the antenna is set up.
To help you direct your antenna or to help you determine the most suitable location to set up the antenna, your TV set has a display for the signal quality **C/N** and the signal strength **Level**.
Consult your specialist dealer to find out which channels and frequency bands (VHF or UHF) are used to broadcast the digital TV stations in your area.
On any one channel, several digital stations are broadcast.

Select a TV channel

1. Call the "TV menu" via the **MENU** button.
2. Use ◀ ▶ to select "Settings", then use ▼ to select the menu line underneath.
3. Select "Channels", then use ▼ to select the menu line underneath.

TV menu			
Settings		INFO	END
Channels	✧	Parental lock | Timer functions |	Language
Manual adjustment	...		

4. Select "Manual adjustment" and call the menu using **OK** (in UK, the manual adjustment does not work with DVB-T).

Manual adjustment				
Signal source	DVB-T	✧	DVB-C	Antenna/cable (analogue)
Channel	E 05			
Frequency	177.50 MHz			
Name	Test			
Bandwidth	7 MHz			
C/N 96 ▭	Level 99 ▭			
		END		
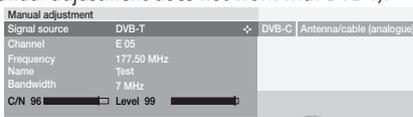
5. For digital stations, select "Signal source − DVB-T".
6. Use the **numerical buttons** to specify the corresponding channel number. Depending on the channel selected and country, the system automatically sets the corresponding bandwidth of 7 or 8 MHz. You should only change the bandwidth under special circumstances - if the channel raster in your area is different from the standard.
   When you receive a digital station, the system displays the signal quality **C/N** via a bar/numeric value and the signal strength via **Level**. The antenna's direction or position is best when the largest values possible are displayed (long bar) for the signal quality and signal strength.
7. Direct the antenna so that the largest numerical value/bar size is reached.
8. If no signal is found in the channel set, you can start the frequency search run by pressing the **blue** button within the band selected (VHF or UHF).
9. Check the other channels one after another on which digital stations are broadcast terrestrially in your area.
   For the weakest station, direct the antenna so that the maximum numerical value/bar size is achieved.
10. After you position or direct the antenna, we recommend to search for all the stations using the "Search wizard"
    (TV menu − Settings − Channels − Search wizard).

Daily operation

Switching on/off

Your TV is equipped with an eco-standby power supply unit. On standby, the power consumption drops to low power. If you want to save even more electricity, switch the set off with the mains switch. However, please bear in mind that EPG data (electronic programme guide) will be lost and programmed timer recordings will not be performed by the TV.
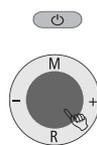
Switching off
If the TV set is switched on, you can switch it to standby using the blue ON/OFF button on the remote control or by using the indicator field on the set. The red lamp on the TV set lights up. If the orange indicator lights up or if both the green and red indicators light up, then, for Spheros R 37, a timer recording is being made, EPG data is being captured or radio operation without screen display is active.

Switching on the TV set
From standby, it is best to switch the set back on using the blue On/Off button or by using the numeric buttons of the remote control (1 − 99).
Or, for Spheros R 26/32, use the switch integrated in the indicator on the set.
The green indicator on the TV set lights up.
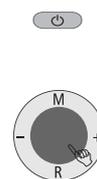
Or switch on the TV set with **OK**, you can then see the station list and select a station.
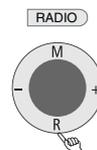
Switch on radio
With the **RADIO** button on the remote control or for Spheros R 26/32:
Switch on radio using **R** on the control ring of the TV set.

If you switch off the TV set using the mains switch on the set, the indicator no longer lights up.

<u>For Spheros R 26/32</u>: If the TV set is switched off via the mains switch, you have to switch it into the standby mode first via the mains switch and then switch it on using one of the above mentioned methods.

Daily operation

Changing stations

... with the P+/P- buttons on the remote control

Stations up/down

When changing, the station display is visible for a few seconds.

41 ZDF	Eifellandschaft	21:00 – 21:45
	Language/sound selection	

If additional languages are broadcast with DVB stations, then the set displays the language/sound selection under the station display. Call the language/sound selection by using the **green** coloured key and select using ▲ ▼ .

... with the numeric buttons of the remote control

The set has a dynamic memory with 1680 station memory locations. If up to 9 stations are stored, you only need to enter one digit; up to 99 stations, two digits are needed; up to 999 stations, three digits are needed (refer to the station list to see how many stations have been stored).

1 digit stations

7 pqrs

long

Press buttons 0 -9 for one second, and the station changes instantly.
Or press button 0 – 9 briefly, the station then changes after 2 seconds (the station changes immediately when only 9 stations are saved).

2- and 3-digit stations

1   2 ab   7 pqrs

short   short   long

After briefly pressing the first numeric button(s), keep the last numeric button pressed for one second, the station then changes immediately.
Or press all numeric buttons briefly, the station then changes after 2 seconds (the station changes immediately if up to 99 or 999 stations are saved).

4 digit stations

1   2   7   8 tuv

all short

Press the four numeric buttons briefly, the channel then changes immediately.

... via the station list

OK Use **OK** to call the station list

Station list		Numerical
	COMP. IN	6 3SAT
	HDMI/DVI	7 S–RTL
	VGA	8 N–TV
	AVS	9 DSF
	DVD	10 TM3
	VCR	11 PRO7
0	VIDEO	12 RTL 2
1	ARD	13 WDR 3
2	ZDF	14 BR
3	SAT.1	15 HR
4	RTL	16 MDR 3
5	VOX	17 N 3

21:00 - 21:45   Eifellandschaft

OK Switch to ...	Scan stations	END
0 ... 9 Select station	Change stations	
	Change sorting	

Select the station (if possible, the selected station will be displayed as a small picture)
or ...

0 AV
⋮
9 wxyz

... select with numeric buttons

OK call selected station

Blue coloured key: sort alphabetically/according to bouquets/numerically

Station list		Alphabetical
COMP. IN	CNN INT.	
HDMI/DVI	CAM	
VGA		
AVS	DELUXE	
DVD	DSF	
VCR		
	EUROSPRT	
ARD		
	HOT	
BR-ALPHA	HR	
BR3		
	KIKA	

21:00 - 21:45   Eifellandschaft

OK Switch to ...	Scan stations	END
a ... z Select letter	Change stations	
	Change sorting	
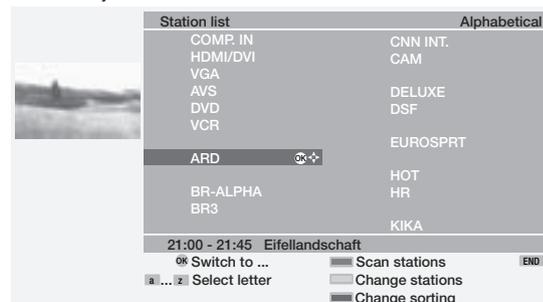
For an alphabetical display: Enter letters with the numeric button (like on a mobile phone keypad), select with ▼ ▲ ◀ ▶ and call with **OK**.
For bouquet display (sorting according to broadcasting chains, only for DVB stations, not for DVB-T stations in UK): Enter bouquet number, select with ▼ ▲ ◀ ▶ and call with **OK**.
Digital stations are indicated by **D** ; encrypted stations are indicated by **D** ⌐. Child-protected stations are indicated by 🔒 .

Call last viewed station (for DVB-T stations in UK)

You can switch back and forth quickly between two stations using this button.

Daily operation

Basics about the menu operation

Menus are called via the **MENU** button or via the button for special menus and can be hidden by using these buttons or by using the **END** button. The menu is displayed in the bottom section of the screen. At the top, you can see additional information for the menu point selected. In the menus, navigate by using the cursor ▲ ▼ ◀ ▶ . You can make settings by using ◀ ▶ . When you exit the menu, the settings are adopted.

Example of the menu operation

We shall demonstrate how to navigate with the menus using the TV menu as an example. You can see which buttons you can use in the dark blue field on your TV set.

MENU   Open TV menu (in TV mode).

> **Picture**
> Here you can adjust among other things: Contrast, colour, brightness, picture adjustment, sharpness, picture format.

TV menu				INFO	END
Picture	Sound	Recording	Connections		Settings
Picture adjustment	...				
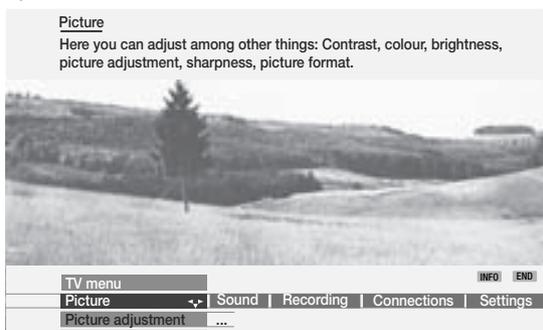
Select the function in the TV menu, e.g. "Sound" (for sound settings). Use ▶ to move the menu points displayed on the right into the dark blue field; use ◀ to move the menu points displayed on the left.

	TV menu			INFO	END
Picture	Sound	Recording	Connections		Settings
	Treble	...			
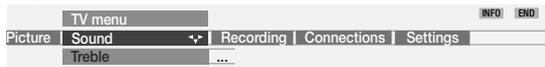
Select the sound function below with ▼ or **OK**; you will then see a list of the sound settings.

TV menu			INFO	END
Sound				
Treble	Bass	more ...		
4				

In the sound settings, also select the function with ◀ ▶ , e.g. "Bass" (for increasing or reducing the bass tones).

TV menu			INFO	END
Sound				
Treble	Bass	more ...		
6				

To set the bass tones, use ▼ or **OK** to select the setting bar underneath.

TV menu		INFO	END
Sound			
Bass			
6			
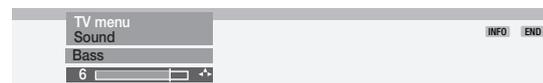
Set the bass tones by using ◀ ▶ .

If you want to make other sound settings, move up with ▲ to "Bass" and select with ◀ ▶ , e.g. "more...". You can also move up further to "Sound" by using ▲ and select other settings in the TV menu (such as, picture settings).

	TV menu		INFO	END
	Sound			
Bass	more ...		Treble	

Use **OK** to call additional sound settings.

	TV menu				INFO	END
	Sound					
Bass	Loudspeaker sound	Headphone volume	Headphone sound	Auto vo	
	Stereo	...			

Select the sound setting using ◀ ▶ , e.g. "Auto volume" and ...

	TV menu				INFO	END
	Sound					
sound	Auto volume	AV audio signal	Maximum volume	Balance	
	off	...			

... use ▼ to select the auto volume option.

TV menu		INFO	END
Sound			
Auto volume			
off	on		

Use ◀ ▶ to select "on" and activate the auto volume.

TV menu		INFO	END
Sound			
Auto volume			
off	on		
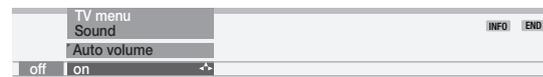
END   Press the **END** button to hide the menu.

Apart from the TV menu shown here, other menus can be opened in TV mode as follows:

◁   Call the Sound menu directly.

▢   Call the Picture menu directly.

⊞   Quick calls for Image+ *, teletext subtitles, personal text pages, headphone volume, scan stations and to move the picture up and down.

Green coloured key: Call standard settings for picture and sound.
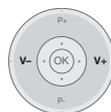
Using the volume control, you can also open other sound settings, such as Sound via, Sound adjustment, Sound effects and Loudness.
The key ▲ or **OK** must be pressed for the duration of the volume display for this.

Daily operation

For the info system ...

For each menu point, an info text is displayed at the top of the picture to help you with the setting. This saves you from having to refer back to the operating instructions. We shall demonstrate this using the station search option as an example:

MENU   Call the TV menu.
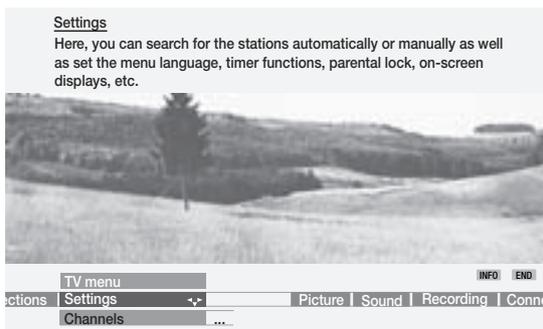
(OK)   Select "Settings".

In this example, you can see the options available after "Settings".

(OK)   If you want to search for new stations, for example, use ▼ to select "Channels" in the line below.
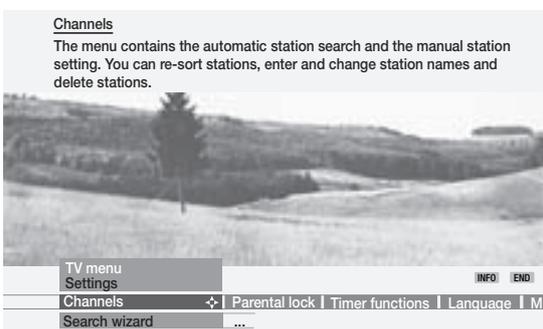
The info text indicates which settings you can make in "Channels".

(OK)   Use ▼ to select the line below, for example "Search wizard".
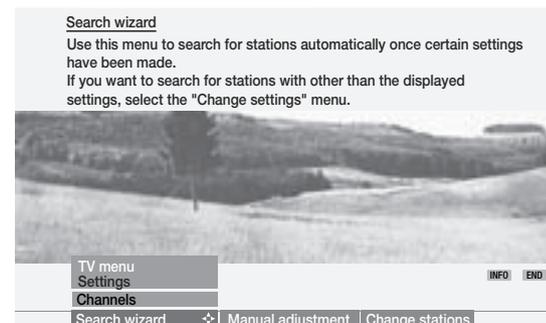
The info text explains how you are to proceed.

Upon delivery, the TV set is configured so that the info texts are always displayed (Automatic info "yes"). In this case, you can hide the info texts by using the **INFO** button.
You can also configure the TV set so that you call the info texts when needed by using the **INFO** button (Automatic info "no"). You can find the setting to switch the automatic info option on or off via "TV menu under Settings – Miscellaneous – On-screen displays – Automatic info – yes/no".

Daily operation

For the index ...

Using the index, you can access many operational functions directly. You can also find a great deal of information on technical terms about television. Before the alphabetical sorting, you can find the menu language option, the list of features integrated into the TV set and the repeat initial installation option.

INFO   Call the index in the TV mode (without any other on-screen displays).

You can select your language for operating the TV set.

Index	
Language	OK ◆
Integrated features	
Repeat initial installation	
*	
Access code	
Active window (PIP)	
Automatic channel programming (ACP)	
AV (Audio/Video)	END

OK Activate   ◆▶ Previous/next letter
a ... z Select letter   P+ Page ↑/↓
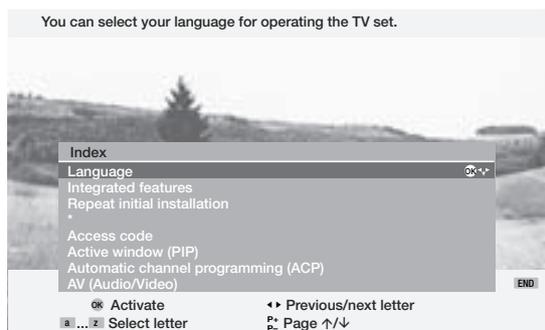
Info on the index item selected is visible at the top of the picture. If the OK symbol is displayed in the line selected, you can use the **OK** button to access the menu directly and carry out settings or selections.

This is how to select the index item:

2 abc
⋮
9 wxyz
     Enter the first letter using the numeric buttons on the remote control (like on a mobile phone keypad);
or

(OK)   use ◀ ▶ to go to the previous/next letter,
or

P+ / P−   use P+/P− to scroll up or down through the pages

(OK)   and use ▼ ▲ to go from line to line.

For example, you want to have the TV set switch off automatically:

Select the index item "Switch off" − "Automatic".

You can set your TV set to switch off to stand-by mode once or every day at a given time.

Index	
Switch off	
Automatic	OK ◆
Manual	
Symbol rate*	
Teletext	
Activate	
Character set	
FLOF	END

OK Activate   ◆▶ Previous/next letter
a ... z Select letter   P+ Page ↑/↓
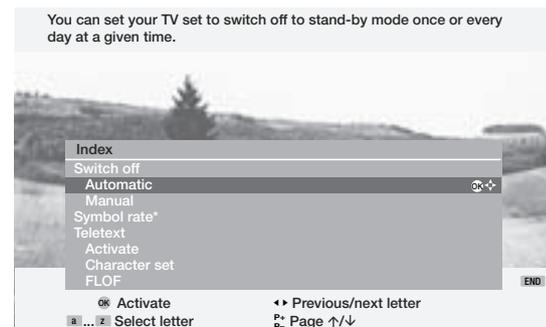
(OK)   Use the **OK** button to call "Switch off" − "Automatic".

Switch off today only
If you want your TV set to switch off once automatically (to stand-by mode) select "yes" and enter the time.

TV menu	
Settings	
Timer functions	
Switch off today only	◆ Switch off daily | One-time reminder | Wake
no	....
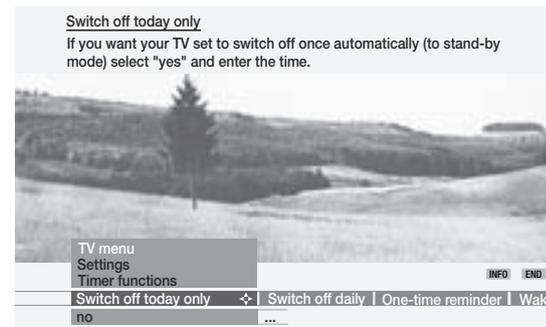
The corresponding menu "Timer functions" is displayed (in the TV menu − Settings). You can now choose between "Switch off today only" and "Switch off daily" and enter the time.

Daily operation

Setting the sound

Volume and other frequently used sound settings

Setting the volume

| Volume | ... |
| 24 | |
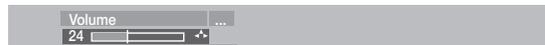
by using ▲ or **OK**, you can call other sound settings ...

| Volume | Sound adjustment | Sound effects | Loudness |
| 24 | | | |

and select using ◄ ▶ ...

| Volume | Sound adjustment | Sound effects | Loudness | V |
| | normal | | | |

use ▼ for the related selection/setting...

| Sound adjustment | | | |
| normal | Pop | Classic | Speech | n |

... and use ◄ ▶ to make the selection/setting there.

Sound adjustment allows you to adjust the sound characteristics to the station's sound. The Sound effects settings allow you to expand a Dolby Pro Logic Signal to a virtual surround signal by using "Dolby Virtual"; by using "Panorama", you can enhance the foundation of the stereo sound virtually for the loudspeakers.

Sound off/on

Sound off;
Sound on: Press button again or adjust volume.

| Sound off |

| Sound on |

Other sound settings:

Call the Sound menu

Sound			INFO	END
Treble	Bass	more ...		
4				

use ◄ ▶ to select the sound function to be set and use ▼ for the related selection ...

Sound		INFO	END
Bass			
6			
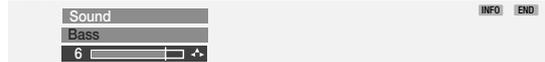
and use ◄ ▶ to select/set.

Sound settings: Treble and bass. Different menu items are displayed depending on the connected audio device (AURO, hi-fi amplifier). Under "more ..." you will find the sound selection for loudspeakers and headphones, auto volume, headphone volume, AV audio signal, maximum volume and balance.

Picture settings

Open the Picture menu

Picture			INFO	END
Picture adjustment	Contrast	Colour	Sharpness	more ...
normal	....			

use ◄ ▶ to select the picture function to be set and use ▼ for the related selection ...

Picture		INFO	END
Colour			
6			
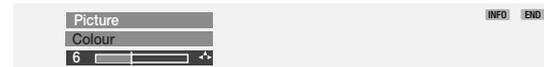
... and use ◄ ▶ to set/select.

Picture settings: Picture adjustment, Contrast, Colour, Sharpness. Under "more ...", you can find settings for Brightness, Image+*, Picture format, Move picture up/down, Auto format and Film quality improvement DMM*.

Direct control on TV set

On page 4 and 5, you can find illustrations of the control units located on the set.

Switching station on the TV set

Station up: with the button **+**

Station down: with the button **−**

Switching the radio on/off or switching over to the radio

Press **R** to switch the radio on or off (not for Spheros R 37).

Additional functions via the menu

In the radio or TV operating modes, you can make settings for Volume, Brightness, Contrast, Picture format and Stations. "Service" is intended for the customer service department.

use **M** or ↻ to call the menu

Direct control on TV set				
Operating mode	Volume	Brightness	Contrast	Picture f
TV				

use **−** or **+** to select the function to be set

Direct control on TV set				
mode	Volume	Brightness	Contrast	Picture format	Sta
24					

use **R** or ↻ for the related setting/selection

Direct control on TV set	
Volume	
18	

use **−** or **+** to set/select.

Use **M** or ↻ to move one level up; you can use **−** or **+** to select other functions.

Operating modes – TV

TV

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation, such as EPG, Teletext, PIP or Radio, have been selected.

Each of these operating modes has a separate menu with separate functions for the coloured keys. Call the menu via the **MENU** button.

How the coloured keys work in TV mode

Note: The coloured keys do not work as described below with DVB-T stations in UK, but they operate as described on page 30 (Digital Teletext).

Red: the TV picture freezes. Pressing this button again starts the picture moving again. If your TV set is equipped with a digital recorder, the DR archive is called.

Green: Call personal settings/factory settings for picture and sound, save picture and sound settings as personal settings.

Standard settings	INFO END
Call up personal settings ⊕ ◄ ►	Call up factory settings	Store as per
⊕ Activate	

Yellow: call last station viewed. You can switch back and forth quickly between two stations using this button.

Blue: call programme info.

1 ARD Eifelland 14:30 - 15:15

Programme info 14:43	END
Detailed info ⊕ ◄ ►	Detailed info (teletext)	Channel preview (tele

Show status display

END Show/hide status

1 ARD Eifellandschaft 14:30 - 15:15 Stereo
🕐 14:42 Alarm time 20:00 Sleep timer 23:00
Language/sound selection

In the line above, you can see the name of the station and the sound mode. Displayed below are additional options (Time, Sound mode, Alarm time and

Sleep timer) that can be selected in the "TV menu – Settings – Miscellaneous – On-screen displays".

For the status display, the DVB station providers may offer additional selection options for each station. Thus, the corresponding colour key or the **TEXT** button is displayed:

Red: channel selection for multi-channel providers.

Green: language/sound selection.

Yellow: time selection.

Blue: protection of minors.

TEXT DVB subtitles.

If you press one of the coloured keys during the status display or you press the **TEXT** button, the related selection menu is displayed.

The status display subtitles refer only to the "DVB subtitles" and are not provided by all stations. The options you see depend on the particular station (many stations broadcast subtitles via teletext).

The status display is displayed automatically when a new programme begins with options different to the previous one.

Notes:
• In the sound mode, Mono! means that you have switched manually from stereo to mono, for example.
• The selection menus are only available as long as the status display is displayed. You can call them again at any time by pressing the **END** button on your remote control.

Calling the index

INFO Calling the index

You can select your language for operating the TV set.

Index	
Language	⊕◄►▼
Integrated features	
Repeat initial installation	
•	
Access code	
Active window (PIP)	
Automatic channel programming (ACP)	
AV (Audio/Video)	END
⊕ Activate ◄► Previous/next letter	
a ... z Select letter ⧉ Page ↑/↓	

You can find more information on the index on page 18.

Operating modes – TV

Call additional functions

⊞   Select additional functions such as Image+ *, Teletext subtitles, Personal teletext pages, Headphone volume and Scan stations.

Additional functions		INFO END
Image+	⌄ⁱ	Teletext subtitles	Personal teletext pages	
off	...	

Call timer overview

🕐   If timer recordings have been programmed, you will see when which station is recorded here.

Timer list	Fri 12.09./14:12
12.09. 18:00-18:30 3SAT Die Köchin, die Putzfrau und d	

TEXT Detail	New recording	Change	END
		Delete	INFO

Select picture format

→☐←   The TV set sets the best picture format automatically when Auto format is switched on. If you want to set a different format, press this button until the desired format is selected or select the format with ◄ ► .

Picture format	
16:9	◄ ►	4:3	Panorama	Cinema	Zoom

Move picture up/down

(OK)   To make picture subtitles visible, you can use ▲ ▼ to move the picture up or down with the picture formats "Panorama", "Cinema" and "Zoom".

Note: for DVB-T stations in UK you can switch back and forth quickly between two stations using this button.

TV menu

MENU   Call up the TV menu

TV menu		INFO END
Picture	⌄ⁱ	Sound	Recording	Connections	Settings	
Picture adjustment	...	

You will find a description of the picture and sound settings on page 19. The TV menu offers other options for recording, connections and settings of the TV set.

For a recorder that is logged in, you can find the following menus in the "Recording wizard":

Recording wizard - to programme new timer recordings
• Via EPG (not for DVB-T in UK) • Via teletext • Manual
You will find further information about timer recording on page 33.

Timer list
Here you will find a list of programmes programmed for recording. You can change the recording data or delete programmed recordings and programme new recordings.

Pre-record time and Post record time
For recordings without VPS/PDC, set a lead and lag time here so that the programme is fully recorded despite any slight differences in the time.

Under "Connections" you will find the following functions:

New devices/modifications (connection wizard)
The connection wizard helps you connect and log in additional equipment such as video recorders, DVD players/recorders, camcorders/digital cameras, pay TV decoders, equipment with component signals and digital HDMI/DVI signals.

Antenna DVB
• Antenna DVB-T • Antenna DVB-S [(1]
You can find more information on pages 13 and 14.

Digital Link Plus
Transmission of the station data from the TV set to the video/DVD recorder if a recorder with Digital Link Plus is connected.

Miscellaneous (connections)
• Set AV norm for the connections manually (if it is not recognised automatically).
• "Assign audio digital signals" to one of the AV sockets.
• "Allow switching voltage" to display the signals of the connected device immediately on the screen via Euro AV during playback.
• RGB insertions at AV2 to play back RGB signals at all station storage locations.
• Select decoder stations and set sound encoding.

Under "Settings" you will find the following functions:

Channels
Here you can search for and store new stations automatically or manually.
With "Change stations", you can rearrange and delete the stations and change station names (not for DVB-T stations in UK).
• Search wizard • Manual adjustment • Change stations

[(1] only for sets with DVB-S

Operating modes – TV

Parental lock

You can lock the TV "immediatley", "daily" for a certain period of time or "age-related" for DVB programmes with age restrictions.

Here, you determine the PIN to enter if you want to watch locked programmes.

Timer functions

You can have your TV switch off at pre-programmed times or wake you/remind you with radio or TV. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

• Switch off today only   • Switch off daily   • One-time reminder
• Wake up Mon-Fri   • Wake up Sat   • Wake up Sun   • Wake up with *
• Wake up signal volume

Language

If "your" menu language is not set, you have to select the "Language" menu in a language that you do not understand. Therefore here is a simple way to set the right menu language:

1. Press the **INFO** button (index), select the first listing (this is above A).
2. Call the language selection by pressing the **OK** button.
3. Now select the desired language and confirm it by pressing the **OK** key.
4. Hide the menu again with the **END** button.

Miscellaneous (settings)

On-screen displays

You can set the duration and position of the station and status display, define the content of the status display and switch the automatic info texts on or off:

• On-screen display time   • On-screen display position   • Programme title
• Sound mode   • Time   • Alarm time   • Sleep timer   • Automatic info

Time and date

If you receive teletext, the set registers the time and date. These are required for timer recordings, timer functions and EPG. If you do not receive teletext, then you have to enter the date and time; you should not switch off the set using the mains switch since the settings will then be lost.

DVB software

Update of DVB software via satellite [1].

DVB subtitles

• Subtitles off   • Subtitles for the Hearing Impaired
• Subtitles as translation for foreign language programmes

DVB character set

• Western European   • Polish   • Standard.

Rotate TV

For Spheros R 32/37, it is possible to rotate the TV set on a Loewe rotating stand. You can find out more on page 41.

DVB subtitles

If the station provides DVB subtitles, then you can have the TV display them permanently or suppress their display. You can also select between subtitles "for translation" or "for the Hearing Impaired".

1. Call the "TV menu" via the **MENU** button.
2. Select the "Settings" line and confirm using **OK**.
3. Select the "Miscellaneous" line and confirm using **OK**.
4. Select the "DVB subtitles" line and confirm using **OK**.

DVB subtitles		
Subtitles off	OK ÷	
for impaired hearing		END
for translation		INFO

Note: If you have selected "Subtitles off", then the set generates an on-screen display when subtitles are available.

By using the **END** button, you can open the status display and you can display the subtitles again by using the **TEXT** button.

• Call the status display by pressing the **END** button, if it is not yet displayed.
• When the status display is visible, press the **TEXT** button.
   Select the desired language and confirm using **OK**. The presetting changes for the current programme.
• Which subtitle languages can be selected depends on the provider.
• The automatic shortlist is determined by the menu language and the selection made in the "DVB subtitles" settings menu.
• By pressing the **END** button, you can hide the menu again.

Note: DVB-T subtitles are not available when Digital Teletext is selected.

[1] only for sets with DVB-S

Operating modes – TV

Removing the CI module

1. Switch the TV set off by pulling the mains plug from the power outlet.
2. Remove the cover from the back of the set on the upper left.
3. Press the eject button at the module slot; the module is unlocked.
4. Remove the module from the set.

CI module

COMMON INTERFACE
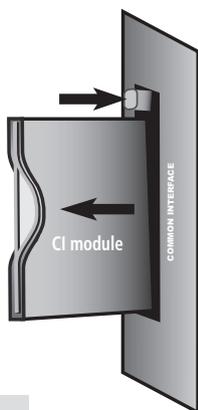
Inserting a new CI module

After you insert a new CI module and switch the TV set on, the following dialogue is displayed:

> Autom. station search
>
> Your TV set has detected a new CI module. This requires a station search for all new receivable stations.

After you press the **OK** button, the system starts the wizard to carry out the automatic station search.
Check the proposed search parameters and let the set search for new stations.

Calling the CI module menu

Here you can call up information on the inserted common interface module and the smartcard. To do this, use the **MENU** button to call the TV menu, select the line "Settings", "Miscellaneous" and then the entry "CI module - xxx" (in place of "xxx" stands the name of the provider which is output by the smartcard. The content of this menu depends on the particular supplier of the CI module.

Note: This menu is only available for digital stations

Installing new DVB software

To ensure your DVB-S receiver is always performing at the state of the art, newly developed software versions are made available from time to time; these are broadcast via satellite and can be automatically installed on your set (only possible via ASTRA1).

Software is recognised automatically

The set can determine whether a new software version is available. This occurs at night when your EPG is automatically updated. For this, your TV set has to remain in the standby mode (do not switch off using the on/off button on the set).
If a new software version has been found, the set will indicate this with an on-screen message the next time the set is switched on: You can decide whether or not you want to download the new software.
Confirm using **OK**, so that the new software can be loaded and installed via satellite. Continue as set out in the "Downloading software" section.

Searching for new software

If you want to carry out a manual search for new software, proceed as follows:

1. Call the TV menu using the **MENU** button.

2. Confirm the "Settings" using **OK**.

3. Confirm the "Miscellaneous" using **OK**.

4. Select "DVB software" and press **OK**.

> Update digital TV software
>
> Current version: V3.x.x
>
> You can search for a new software version with OK.

5. If you start the search using **OK**, the set checks if there is a new software version available.

6. If there is a new version available, the set generates an on-screen message.

> Update digital TV software
>
> Current version: V3.x.x
>
> New version: V3.1.0

Downloading software

1. If you press **OK** in the dialogue above, you can decide whether you want to download the new software immediately, when you switch off the set or not at all. We recommend you always carry out the update of the digital software. This is the only way to ensure your set is always up to date.

2. If you do decide to update, the software is initialised on your set and you are informed of the status with a grey bar.
Do not switch your set off during this time. This process may take up to one hour. You will be informed when the process is completed.

3. After the software is updated, you will be asked to switch your TV set off and back on again using the on/standby switch.

If the update was not carried out, you will be asked several times when you switch on the set whether you want to carry out this update.

Operating modes – TV

Image+

Image+ is a picture improvement specially developed by LOEWE, which delivers a sharper, lifelike and colour-fast picture richer in detail and contrast. Image+ is only integrated in Spheros R 32 and Spheros R 37.

Image+ menu

⊞   Call the menu "Additional functions".

Additional functions			INFO	END
Image+	Teletext subtitles	Personal teletext pages		
off	...			

OK   Use ▼ to move to the corresponding selection/setting....

Additional functions		INFO	END
Image+			
on	off	Demo	

OK   and use ◄ ► to select/set and use....

Additional functions		INFO	END
Image+			
on	off	Demo	
OK Activate			

OK   to activate.

IIn the Image+ menu, the functions Image+ "on", "off" and "Demo" can be set.

The Image+ settings can also be opened via the "Picture menu".

◻   Open the Picture menu

Picture				INFO	END
Picture adjustment	Contrast	Colour	Sharpness	more ...	
normal	...				

OK   use ◄ ► to go to more... and select with **OK**

Picture			INFO	END
htness	Image+	Picture format	Move picture up/down	Auto for
on	...			

Select/set as described in the Image+ menu.

The standard setting at delivery of the set is Image+ "on".

Image+ demo mode

In order to show the way Image+ works, a "Demo mode" is integrated.
In "Demo mode", the current picture is divided into two parts. The left half of the picture is shown in "normal" mode, the right half in the Image+ optimised mode.
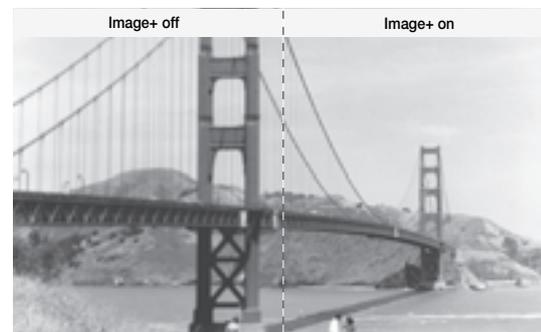
The demo mode can be closed by pressing on any button on the remote control.

Operating modes – PIP

Picture in picture (PIP)

<u>Note</u>: The coloured keys do not work as described below with DVB-T stations in UK, but they operate as described on page 30 (Digital Teletext).

Picture in picture displays are possible if the set has an analogue PIP tuner or a digital satellite tuner in addition to the analogue TV cable tuner. You can have a PIP tuner (not for Spheros R 26) or a digital satellite tuner (not for UK sets) retrofitted. If there is no other tuner installed, you can use PIP (AV-PIP) when playing a video recorder or DVD player.
For a retrofitted PIP tuner, the following PIP displays are possible: Main picture analogue – PIP picture analogue, Main picture digital – PIP picture analogue. The following is not possible: Main picture digital – PIP picture digital, Main picture analogue – PIP picture digital.
For "Split screen," the PIP picture is displayed on the right side of the screen. Both pictures share the screen in two equal halves. For the "Small PIP" setting, a small picture is displayed in the TV picture.
The green bar/frame indicates that the control commands have an effect on the PIP picture. The white bar/frame means that the control commands have an effect on the main picture. Use the **green** coloured key to switch between the PIP picture and the main picture, for example to change stations.
The frame or bar between the pictures is green for the time being.

| # PIP | Show/hide PIP picture |

PIP picture as freeze picture

The bar/frame has to be green. If not, press the **green** coloured key.
If you press the **red** coloured key, the PIP picture freezes. Press again - moving picture.

Selecting the station of the PIP picture

The bar/frame has to be green. If not, press the **green** coloured key. Then select the station as usual.

1 ARD   Der Wilde Westen   21:15 – 22:15
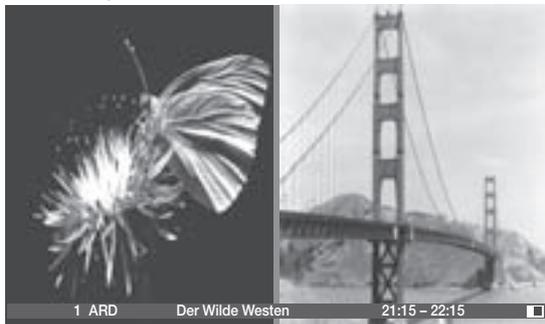
Select the station of the TV picture (main picture)

The bar/frame has to be white. If not, press the **green** coloured key. Then select the station as usual.

<u>Note</u>: For UK sets, you switch from the green bar/frame to the white by using the **PIP** key. The next time you press the **PIP** key, PIP is switched off.

41 ZDF   Eifellandschaften   21:00 – 21:45

PIP scan in the PIP picture

The bar/frame has to be green. If not, press the **green** coloured key.
Start scanning the stations using the **blue** coloured key. The bar/frame turns blue.

The stations now change automatically. Stop scanning the stations by using the **blue** coloured key. The bar/frame turns green again.

Interchanging PIP picture/TV picture

The bar/frame has to be green. If not, press the **green** coloured key.

1 ARD   Der Wilde Westen   21:15 – 22:15
41 ZDF   Eifellandschaften   21:00 – 21:45

Operating modes – PIP

Functions in the PIP menu

In the PIP menu, you can set the PIP type (small picture or split screen) and the position of the small picture.

`MENU` Call the PIP menu (PIP must be active, green bar/frame)
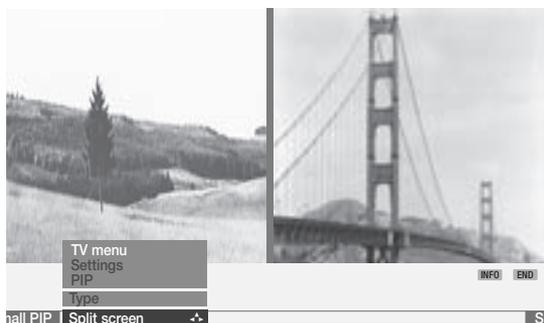
Setting the PIP type

You can have the PIP picture displayed as a small PIP or split screen.

Switch to small PIP:

Select "Type" and then "Small PIP"

For the small PIP, you will see a coloured frame around the PIP picture.

Position of the PIP picture

Move the PIP picture with the arrow keys to a corner of the TV picture. In this case, the frame around the PIP picture has to be green, and there should not be any other displays visible on the screen.

Switch to split screen:

You can have the PIP picture displayed on the right hand side of the screen. Both pictures share the screen in two equal halves. You will see a coloured vertical bar between the pictures

`MENU` Call the PIP menu (PIP must be active, green frame)

Select "Type" and then "Split Screen".
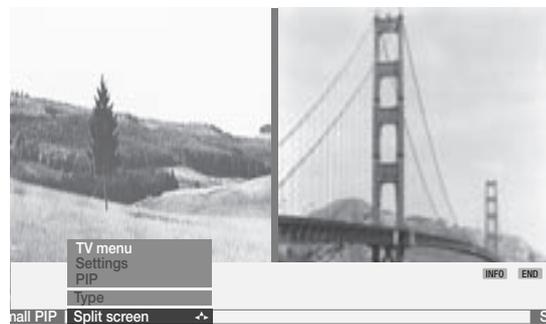
EPG - Programme guide

<u>Note</u>: The EPG does not work with DVB-T stations in UK. The "Now & Next" feature for programme info of the current and next broadcast is displayed instead.

EPG is an electronic programme guide. With this system, you can easily find the programmes that interest you (sorted according to day, time, channel and topic). You can mark programmes and programme recordings.
Depending on whether you are receiving analogue stations by cable/antenna or digital stations, you will have different programme guides.
A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data capture (see next page).

Using the EPG

`★ EPG`   Switch EPG on/off

```
                EPG (Electronic Programme Guide)        Fri 10.09./14:14
        Date    Fri 10.09.
        Time    now                    ▸    soon │ 14:00 │ 15:00 │ 16:00 │ 17:0
    Channels    all
      Topics    all
                13:20-14:15  Kabel 1   Die Waltons                      OK ▾
                13:30-14:15  H3        ARD-Buffet
                13:55-14:20  Kinderkan Blaubär & Blöd (37)
                14:00-14:15  ZDF       heute - in Deutschland
    24 Kabel 1  14:00-15:00  RTL       Das Strafgericht
                14:00-15:00  Sat 1     Zwei bei Kallwass
                14:00-15:00  Pro7      Das Geständnis - Heute s...
                14:00-14:30  N3        DAS! ab 2
                14:00-14:20  WDR       Die kleinen Strolche (10)
                Familienserie - Sturzflug

    TEXT Detail          OK View              ▭ Record            END
    ⊞ Page ↑/↓           0 ... 9 select time  ▭ Select date, ... , topics  MENU
```

The programme guide menu is divided into two areas: at the top, you can make the settings for the programme list (date, ..., topics); on the bottom, the programme list is displayed. Use the **blue** coloured key to switch between the two areas to make your selections.
All programmes **currently** running are listed initially in the programme list. With the ▾ ▴ buttons, select the programme you want to watch and switch over with the **OK** button.
Brief information is shown below the programme list for some programmes. If more detailed information is available, you can call it using the **TEXT** button. Use **P+/P–** to scroll up or down through the pages of the programme guide. In the selection lines for date and time above, you will see the time change when scrolling; when you scroll further, the date also changes. When the "Time" line is selected, you can enter the time as of which the programmes are to be displayed; use the numeric buttons on your remote control to do this. Always enter four digits, such as 0900 for 9 a.m.

If programmes are displayed which have not yet started, you can mark these with the **OK** button. The TV set then switches automatically to this station at the given time. When receiving digital terrestrial and digital satellite stations, you may find that two identical EPG data are displayed in the "EPG (DVB)" menu for one station. If you call the EPG menu in the EPG mode by using the **MENU** button, then select "Station selection," you can select the duplicate station and deactivate it by using **OK**).
You have direct access to the selection lines above to pre-select the day, the time, the station and the topic.

⟨button⟩ **Blue** coloured key: Call Select date/time/channels/topics

```
                EPG (Electronic Programme Guide)        Fri 10.09./14:14
        Date    Sat 11.09.         ✧ Sun 12.09. │ Mon 13.09.
        Time    06:00
    Channels    all
      Topics    all
                06:00-06:20  ZDF       Die Blobs
                06:00-06:30  RTL       Wunderbare Jahre
                06:00-06:25  Kabel 1   Dennis
                06:00-06:25  N3        Extra en español (5)
                06:00-06:30  BR        Goal. Speak English, Play Football
                06:00-06:30  WDR       Lokalzeit Südwestfalen
    24 Kabel 1  06:00-07:10  SuperRTL  Infomercials
                06:00-07:10  Kinderkan Reif für die Dodo-Insel (25)
                14:00-14:20  9LIVE     Reisetraum
                Comedyserie - Kandidaten mit gewissen Fehlern

                                                              END
                                  ▭ Change to programme list  MENU
```

Use ▾ ▴ to select the menu line for the date, time, channels or topics. Use ◂ ▸ to select within the menu line.
If, for example, you are looking for the next news, select today's date, "Soon" under Time, "All" under Channels and "News" under Topics.
Then you get a list of all news programmes in the programme list below.

```
                EPG (Electronic Programme Guide)        Fri 10.09./14:14
        Date    Fri 10.09.
        Time    soon
    Channels    all
      Topics    News               ✧ │ Show │ Hobby │ Sport │ Child │ Kn
                15:00-15:15  Das Erste    Tagesschau um drei
                15:00-15:05  hr-fernse    hessen aktuell
                15:00-15:15  ZDF          heute - Sport
                16:00-16:05  SÜDWEST      Baden-Württemberg Aktuell
    24 Kabel 1  16:00-16:15  Das Erste    Tagesschau um vier




                Nachrichten - News

                                                              END
                                  ▭ Change to programme list  MENU
```

If you want to mark one of these news programmes, return to the programme list using the **blue** coloured key, select the desired news programme by using ▾ ▴ and mark this by using **OK**.

Operating modes – EPG

In front of the programme's title, the system places an ✓ . This station is switched later to this programme when the set is switched on. If the TV is off, it switches on again automatically at the beginning of the marked programme if this has been set in the EPG menu. If you are out, a security prompt prevents the TV set staying on unattended.
Before leaving the upper selection lines using the **blue** coloured key, select a specific line. If you have switched back to the programme list, you can change this menu line using ◄ ▶ without having to leave the programme list.

Programming recording for recorders

The programme marked using the ▼ ▲ buttons can be prepared for recording by pressing the **red** coloured key. In the following menu, confirm the timer data or change them as required. Then, a red dot is set in front of this programme in the EPG programme list as an identification (if timer data is being transferred to the recorder, no red dot is set). If you select this programme, you can delete it from the timer using the red coloured key (if the timer data has been transferred to a recorder, the timer has to be deleted there).

EPG menu

| MENU | Call EPG menu |

```
                                                    INFO    END
EPG menu
Select provider    ⊕ ◄ ▶ | Station select| Timer list  |  Data capture | Switc
```

You will find the following settings in the EPG menu:
• Select provider   • Station selection   • Timer list   • Data capture
• Switch on TV when marked

Selecting providers and stations

If you want to change the provider for analogue TV reception (the station which transmits EPG data) to have other stations evaluated, you can do this under "Select provider".

Select "Select provider" and call this menu using **OK**. If the station you want to switch to is not listed in the "Select provider" list, then use the **yellow** coloured key to start the automatic search for stations with EPG data. This takes a while.

Or, if you know the station that transmits EPG data, press the **blue** coloured key to compile manually. Select the provider in the station list and adopt it by using **OK** and return to the provider selection using ◄◄.

Select the provider in "Select provider" and adopt it using **OK**. Then a station list search is performed. The stations offered by the provider are displayed in a list.

If you want certain stations to be omitted from the programme guide, you can select and deactivate these via **Station selection**. Call the station selection by using the **blue** coloured key.

Now all stations are displayed (the DVB stations, too). Stations indicated with E are analogue terrestrial/cable stations; stations indicated with D are digital stations ready for the programme guide. Select the stations you want to omit from the programme guide one after another and deactivate each one by using **OK**.

Data capture

After these settings or after each time the set is switched off using the mains switch, the data must first be collected, before switching on the set.
To do this, select the station you have defined as a provider and leave the TV set switched on for about one hour or switch the set to the standby mode. After about two minutes, the orange indicator on the set lights up (for Spheros R 37, both indicators light up). The data capture begins and lasts about 1 hour. The data are also automatically captured between 2 a.m. and 5 a.m. when the TV is switched to standby.
A prerequisite for data capture is that "Data capture" is "on" (for DVB + analogue) in the EPG menu.

Note: If the TV set is switched off using the mains switch or the mains plug is pulled out, all EPG data are lost.
If, for example, you cannot receive any analogue EPG providers or if you only use DVB, you should set the data capture to "on (only for DVB)".

Switch on TV when marked

You can have the TV switched on automatically from standby at the beginning of the marked programme. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

Operating modes – Teletext

Analogue Teletext

Teletext transmits information such as news, weather, sports, programme previews and subtitles.

TEXT   Teletext on/off

Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into topic groups and topics. After switching on the teletext, up to 3,000 pages are stored for fast access.

Page selection with the coloured keys

The coloured bars (in TOP) or the coloured writing (in FLOF) in the next to the last line show you which coloured keys you can use to scroll to topic groups and topics.

Red: back to the previously seen page (not in FLOF)

Green: on to the next page (not in FLOF)

Yellow: to the next topic (only in TOP and FLOF)

Blue: to the next topic group (only in TOP and FLOF)

Other page selection options:

Select one page number specified on the page by using ▼ ▲ (**Page Catching**)
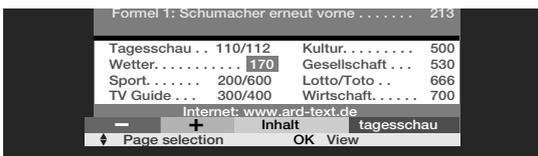
OK   call

In **Multiple pages** scroll using ◀ ▶ . You can see which multiples pages can be called in the bottom menu line.

INFO   Call **contents page** 100

OK   Call the **TOP table**
The TOP table is a general list of teletext. You can only call the table for stations that use the TOP operating system.
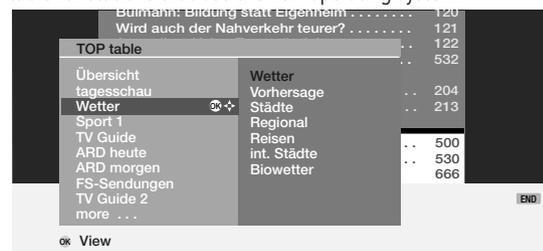
Use ▼ ▲ to select the topic group.
Select the topic column using ▶ .
Select the topic with ▼ ▲ and display page with **OK**.

1 2 7 pqrs   **Enter the page number directly**

Displaying teletext pages

0 AV   Stop self-turning pages (HOLD)

9 wxyz   Zoom page: top part - bottom part - normal size (press button several times)

PIP   TV picture on/off (**Split Text**)

Operating modes – Teletext

Programme timer recordings

A video and/or DVD recorder must be connected and logged in in the connection wizard. Call the programme pages of the current station in teletext mode using the Direct recording button ⬤. Scroll to the teletext page in which the programme to be recorded is listed if necessary. Select the programme you want to record by with ▼ ▲ and confirm with the **OK** button. For "Timer data," select the VCR or DVD recorder and whether you want to record once or a series of times. Confirm with **OK**.

Teletext menu

MENU   Display teletext menu

Here you will find functions such as
- "Newsflash", this is an on-screen display of the latest messages (e.g. page 111).
- "Reveal" concealed information, e.g. VPS pages in the station preview pages.
- Programme wizard for recording via teletext.

In the settings, you will find menus to define the station preview pages, subtitle pages and personal text pages, and menus to set the character set selection as well as HiText graphics.

Digital teletext operation (only for UK device version 27)

In the UK, the teletext for DVB-T stations is transmitted as per the MHEG-5 standard (standard of the Multimedia and Hypermedia Expert Group). It contains text, graphics, functions and links.
The operation of these menus depends on the particular provider. Normally after a station is changed, the provider broadcasting the digital teletext makes an introductory offer for this service on the screen via menu selection. Follow these notes.

Depending on the provider's respective offer, you can use the ▼ ▲ ◀ ▶ buttons and the **OK** button, the **coloured keys**, the **END/TEXT** button and sometimes even the **numeric buttons**.
If you want to close the digital teletext, just select a different station using the **P+/P–** buttons or follow the menu prompts on the screen.

Note:
- Digital teletext is not available when DVB-subtitles are being displayed.
- If a timer recording is programmed at the TV-set, at the start time of the recording the digital tletext mode is switched off automatically

Operating modes – Radio

Radio

You can only receive radio stations via DVB. If you do not have any DVB radio reception, you can play a sound signal from an external device using the TV set via the sound/AV inputs.

Use the **RADIO** button on the remote control or the **R** on the control ring of the TV set to switch the radio on or off.

Radio:	8 DLF			Numerical
	AUDIO IN	9	HR-INFO	D
	AVS	10	MDR INFO	D
	AV2	11	MDR FIGA	D
	AV1	12	NDR KULT	D
1	B5 AKTL	D	13	SWR1	D
2	BAYERN 1	D	14	SWR2	D
3	BR4 KLSK	D	15	WDR3	D
4	SUNSHINE	D	16	WDR5	D
5	ROCK ANT	D	17	OESTER 1	D
6	ANTENNE	D	18	MDR JUMP	D
7	DLR	D	19	JAZZ RAD	D
8	DLF	D	20	BLUSAT20	D

18:00 - 18:10 Nachrichten

ok	Switch to ...		Scan stations	END
0 ... 9	Select station		Previous station	MENU
	Screen off/on		Change sorting	EPG

You can see a station list of the radio stations or with DVB-T in UK the station logo. In this case you can call up the station list by using the **OK** or **INFO** key. Station list is sorted by LCN.
If data are sent by the station, then the time and title of the programme are displayed in the station list.
When the station list is shown you can switch off the screen with the **red** colour key. The LED indicator on the set changes from green to orange or if both the green and red indicators light up, then, for Spheros R 37. You can switch the screen display back on by using the **OK** key, **red** or **blue** colour keys, by using **RADIO** or **END** on the remote control or by using **R** on the control ring of the TV set.
Station switching with dark screen: by using **–** or **+** on the control ring of the TV set or by using the remote control **P–** and **P+** or by using the numeric buttons (for DVB-T operation in UK, the buttons may be configured differently by the provider).
The sound menu can be called in the radio mode using the ⊲ button.

Radio menu

MENU   Call radio menu

Radio menu		INFO END
Sound	Channels | Timer functions	
Treble	...	

In the radio menu, as in TV mode, you can set the sound, search for radio stations and store them (automatically or manually – not with DVB-T mode in

UK), delete stations from the list, rearrange them or change names and set the switching off and alarm functions.

EPG - Programme guide
Note: not with DVB-T stations in UK.

For the DVB radio stations, you can also use the programme guide if the station currently active supplies data.

★ EPG   EPG- Call Programme guide

Operating additional equipment

Login and connect equipment

You have logged in and connected all connected equipment in the initial start-up. If you want to connect other equipment or disconnect equipment, call the connection wizard.

| MENU | Call up the TV menu |

Select "Connections"

Select the submenu line

Select "New devices/modifications" and ...

OK   Call with OK.

State what equipment you want to connect. State whether a piece of audio equipment is to be connected (more details as of page 35). The connection wizard then shows you which sockets you should connect this equipment to. Then connect the equipment to these sockets according to the connection diagram.

Connecting video/DVD recorders

In addition to the connection via the Euro-AV sockets, you also have to connect the antenna (only for terrestrial antenna or cable systems) through the VCR/DVD recorder to the TV set. The antenna signal is then available to the video/DVD recorder and the TV set.

Note: Use Euro-AV cables with right-angled plugs as shown.
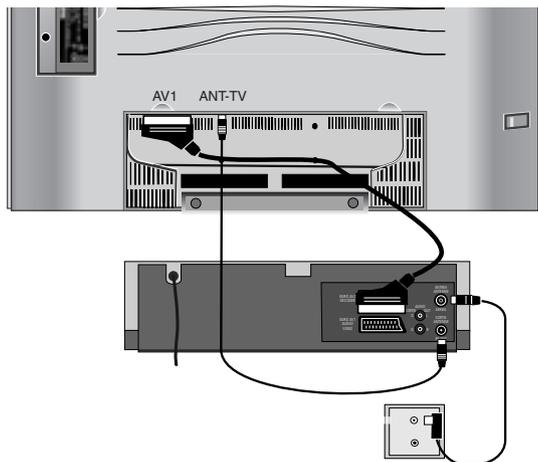
Search for and store the station of the video recorder (if no Euro-AV cable is available)

Switch on the test station on the VCR or insert a recorded tape and start playback. In some video recorders the station must be switched on by activating the modulator.

Then call the AV selection on the TV set with **0 AV**. Select the menu item "VIDEO" in the AV selection and call using **OK**.
To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the cable to the antenna system).
If you cannot see the test station or playback from the cassette, the VCR is transmitting on a different channel. You then have to search for the station or set it manually.

1. Call the TV menu with the **MENU** button.
2. Select the "Settings" menu item with ◀ ▶ .
3. Select the line below using ▼ and use ◀ ▶ to select "Channels".
4. Select the line below using ▼ and select "Manual adjustment" using ◀ ▶ and call this menu using **OK**.
5. Enter channel "E30" under the "Channel" menu item ("Antenna/cable (analogue)", select in this menu above if necessary).
6. Start search with the blue coloured key.
7. When the station has been found, change the name if needed, confirm with **OK** and save with the **red** coloured key.
8. A list of the stored stations is displayed.
9. Select 0 (VIDEO) here and overwrite this station storage location using the **red** coloured key.
10. Hide the menu again using the **END** button.

Plug the antenna plug back in.

If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR and search for the VCR station on the TV again.

Operating additional equipment

Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player/recorder or camcorder on your TV:

1. You can usually use the Euro-AV sockets on the TV set and on the VCR. For camcorders or digital cameras, use the AVS sockets on the right of the TV set. DVD players/recorders and SetTopBoxes may have HDMI or component sockets for video and audio transmission. In this case, use the corresponding sockets on the TV set.

   When playing back from a video recorder using Euro-AV socket and Digital Link Plus (or a comparable system from another manufacturer), the picture from the VCR is shown at the current channel location.

   When playing back from another VCR, camcorder or digital camera, use the AV selection `0 AV` or the station list (**OK**) to select the AV socket/the device to which the VCR is connected.

   Video recorders transmit a switching voltage during playback, which the TV can evaluate (can be activated in the connection wizard or in the "TV menu – Connections – Miscellaneous – Allow switching voltage" - set to "yes"). Then the picture of the video recorder is shown during playback at the current station location.

2. You can use the antenna connection between the VCR and the TV without a Euro-AV socket. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling AV inputs in the AV selection:

`0 AV`   Call AV selection

AV selection						
VIDEO	VCR	⊗←·→	DVD	AVS	VGA	HDMI/DVI	COMP. IN

(OK)   Select AV device/socket (or VIDEO if the video recorder has been connected only via the antenna socket) and use ...

(OK)   to call.

Now you will see the playback from the connected AV device.

Calling AV input via the station list

Call the station list with the **OK** button in TV mode.
In the numeric and alphabetical sorting, you will always find the AV sockets at the top of the list.

Timer recording with video or DVD recorder

You can programme timer recordings on the TV set. Programming can be done with the EPG programme guide (not with DVB-T in UK), teletext or manually. Call the "Timer list" menu with the ⌧ button and press the **red** coloured key for the "Recording wizard". Select whether you want to programme the recording via EPG, teletext or manually. You also have the option to programme recordings directly from the EPG programme guide or teletext.
Note: Copy-protected programmes are not output to the Euro-AV sockets for legal reasons.

When you have connected the Euro-AV socket to a recorder which has **Digital Link Plus** or a comparable system from a different manufacturer, the timer data of analogue terrestrial stations are transmitted from the TV to the recorder. The recording quality SQ or EQ is transmitted for DVD recorders, in additional to the station, date and time. The recording is then controlled by the recorder and the recorder tuner is used for reception of the station. The recording data are not saved in the timer list of the TV set. You will only find the timer data in the recorder.

If you want to record from digital stations, the TV tuner is used and the recorder is controlled by the TV set. Then the station is locked during the timer recording.

If you have connected a Loewe video recorder with **Digital Link** to the Euro-AV socket (without Digital Link Plus) and you are using the timer programming of the TV, the TV receiver is always used, for terrestrial stations as well. The TV controls the recording.
You have to set the recorder to the AV input (signal source) to which the TV set is connected.
Then the station on the TV set is locked during the timer recording.
Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder for more information.
Use only Euro-AV cables, which are completely wired, otherwise Digital Link/ Digital Link Plus will not work.
Another advantage of Digital Link is that you can install the recorder in a concealed place (e.g. in a rack). You can control the recorder with the TV set.
If you have a Loewe recorder with both systems, you can use all the advantages. The advantages of Digital Link Plus are used for the timer recording; the advantages of Digital Link for concealed installation of the recorder.

Operating additional equipment

Assignment of digital audio inputs and outputs

Audio input "AUDIO DIGITAL IN"

The TV set has a coaxial digital audio input "AUDIO DIGITAL IN" and a coaxial digital audio output "AUDIO DIGITAL OUT". If you are using an external digital surround amplifier for sound reproduction, you have to feed digital audio signals to the TV, e.g. from the DVD player.
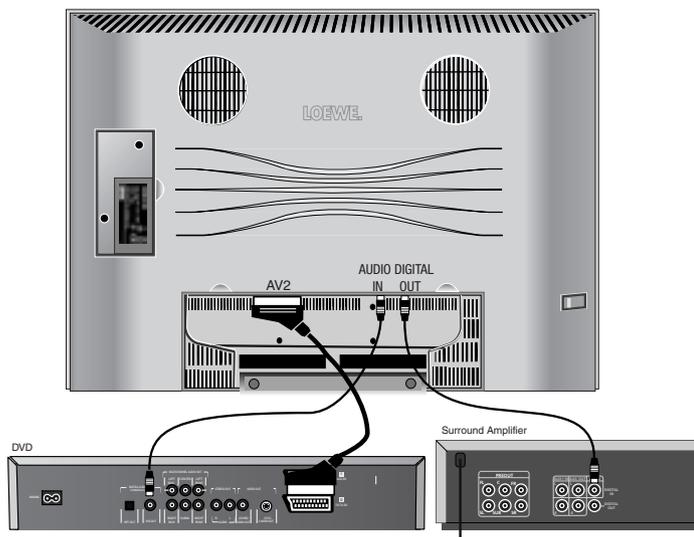
Connect the output socket of the DVD player (DIG OUT) to the TV's "AUDIO DIGITAL IN" socket with a cinch cable.
In the connection wizard, specify that audio transmission is to be digital. Specify that the digital sound is to be assigned for example to the Euro-AV socket 2 to feed the digital sound to the digital audio output of the TV set and via this to the external audio amplifier. Further information about this can be found on page 36.

Audio output "AUDIO DIGITAL OUT"

The digital audio signal is applied at the "AUDIO DIGITAL OUT" socket of the TV. For example, you can connect an external digital audio amplifier or the Loewe Auro system here.

An analogue audio signal from the TV set or another sound source which is received at one of the Euro-AV sockets of the TV set is converted into a digital signal (PCM) and output at the "AUDIO DIGITAL OUT" socket. Conversion from external analogue AV sources to PCM is not possible if the TV's loudspeakers are used as a centre channel. In this case, connect your audio amplifier additionally to the TV (AUDIO OUT L/R) with a cinch cable and switch the audio amplifier to analogue audio input.

The digital TV sound or the digital sound of a connected auxiliary device is only audible via an external digital audio amplifier (e.g. Loewe Auro system).

Operating additional equipment

Connecting Loewe DVD Preceiver Auro 2216 PS and Tremo loudspeaker system

You can play audio signals from the TV or DVD player in cinema quality with these components. The Tremo system includes 5 speakers for the front, centre and surround reproduction in addition to the subwoofer illustrated below. The centre signal can be reproduced alternatively by the TV speakers.

Connect the cubic socket on the DVD Preceiver to the "Master" cubic socket on the subwoofer. Use the cubic plug cable enclosed with the DVD Preceiver. Plug the white plug (without kink protection) into the cubic socket on the subwoofer. For TV as a centre loudspeaker, connect "AUDIO IN C" on the TV set to "PRE OUT C"on the DVD Preceiver using a cinch cable.

Connect the digital audio output of the TV set "AUDIO DIGITAL OUT" to the "DIGITAL IN" input of the Preceiver using a cinch cable. Connect the TV socket "SERVICE" to the TV-L-Link socket on the Preceiver using the L-Link cable (provided with the Preceiver). Switch on the TV set and the Preceiver. Via the L-Link, the TV recognises whether the Preceiver is connected.

Select the "Tremo" loudspeaker system in the DVD menu of the Preceiver, set the listener/speaker distances and adjust the speaker levels. Please consult the Preceiver manual.

If you want to listen to the sound via the TV speakers temporarily, call the Sound menu, select "Sound via" and then "TV". If you want to listen to the sound via the Loewe Auro system, select "AURO" under "Sound via".
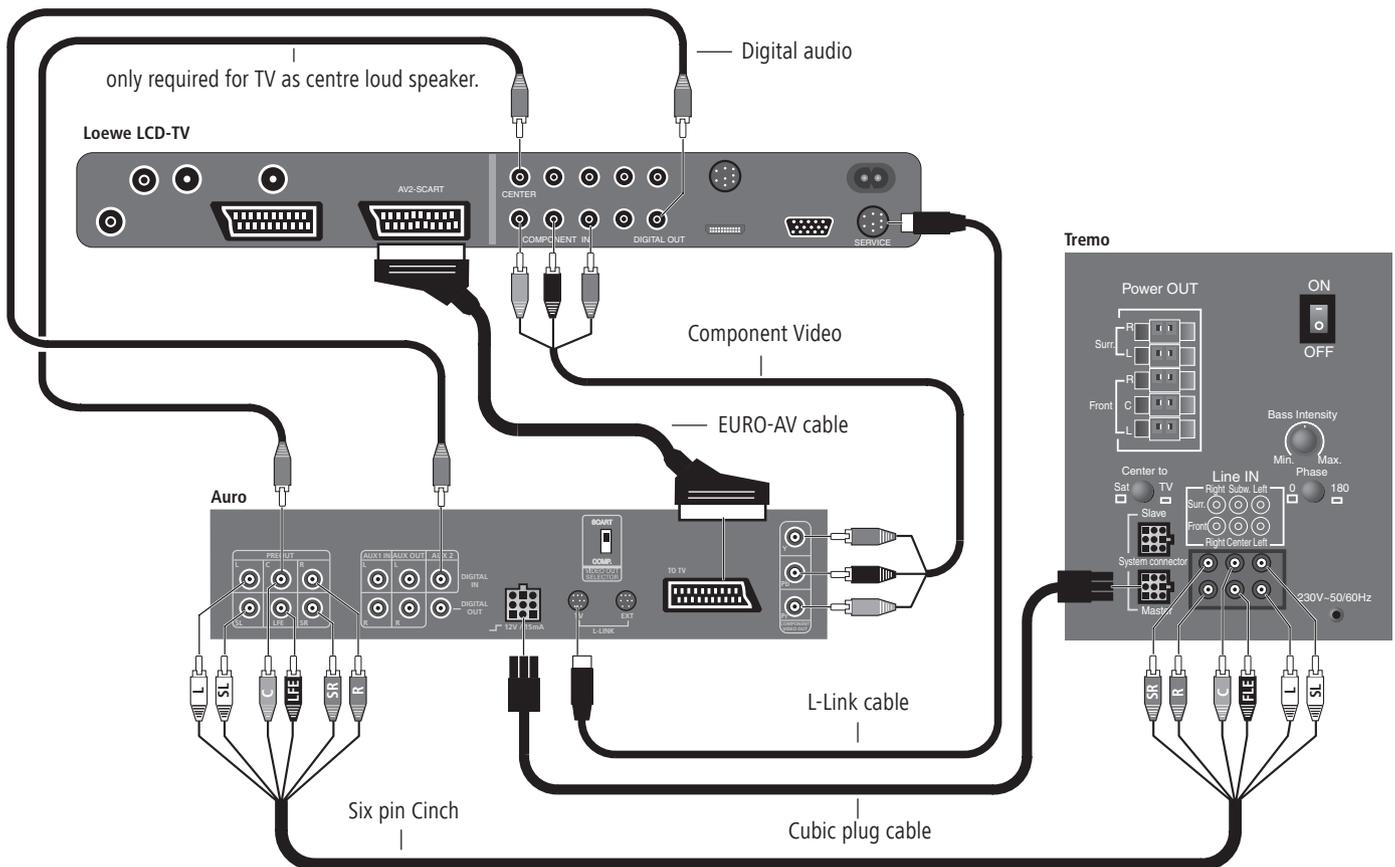
Operating additional equipment

Connecting other audio amplifiers or active speakers

In the connection wizard, select "**HiFi/AV amplifier**" under "Equipment selection: audio component". The connection wizard allows configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different sound formats (Dolby Digital, dts, MPEG and Stereo/PCM). Refer to the operating instructions for the audio amplifier to be connected.

Select "Digital" under "Audio transmission" for **digital audio amplifiers**. Connect the digital audio output of the TV AUDIO DIGITAL OUT to the digital audio input of the digital amplifier.

Assign the digital audio input to the socket through which the corresponding picture is transmitted (e.g. AV2 if a DVD player is connected there). Then the digital sound is passed to the digital audio output of the TV set and fed to the external audio amplifier via this.

Specify which sound formats can be decoded with your digital amplifier (Dolby Digital, MPEG, dts).

Specify under "Type of amplifier" whether the digital amplifier is a stereo or surround amplifier.

If it is a surround amplifier, specify whether or not the TV loudspeakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary.
Note: do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.
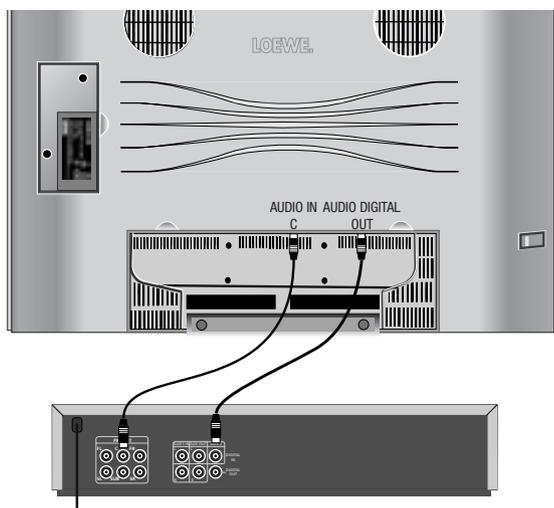
Select "Analogue" for "Sound transmission" for **analogue audio amplifiers**. The sound for the analogue amplifier is transmitted via the AUDIO OUT L/R connections of the TV to the audio amplifier. Connect the amplifier with two cinch cables.
Specify under "Type of amplifier" whether the analogue amplifier is a stereo or surround amplifier.
If it is a surround amplifier, also specify whether or not the TV speakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary. Note: do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.
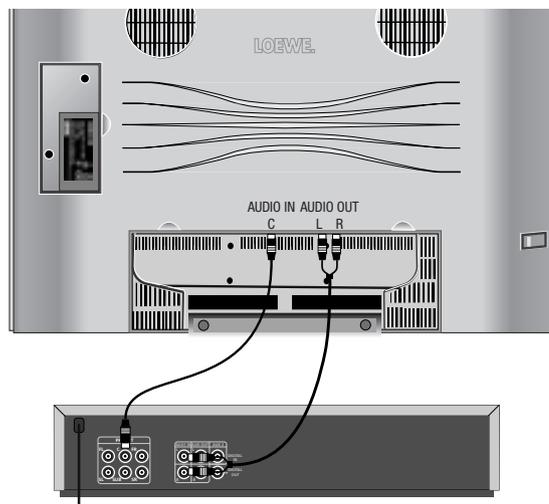
If you want to listen to the sound via the TV loudspeakers temporarily, call the Sound menu using the ◁ button, select "Sound via" and then "TV".

When connecting **active speakers**, select "Active speakers" in the connection wizard under "Audio equipment selection". The sound for the active speakers is transmitted via the AUDIO OUT L/R connections to the active speakers. Make connections to the active speakers using the cinch cables.
Make the audio settings on the TV set when active speakers are connected. When using an external audio amplifier, make the audio settings on the audio amplifier.

Operating additional equipment

HDMI (DVI) connection

HD ready

The HDMI connection (High Definition Multimedia Interface) allows digital picture and sound transmission via a connecting cable, e.g. from Loewe DVD Recorder Centros 2102/2172 HD. The digital picture and sound data are transmitted without data compression and therefore lose none of their quality. In the equipment connected, no analogue/digital conversion is necessary, which might also have lead to losses in quality.

DVI signals can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. This is possible because HDMI is based on DVI and is downwardly compatible. That means that the digital video signals are transmitted via HDMI - no audio signals are transmitted, though. In addition, both use the same copy protection method HDCP.

Connect the set with an HDMI connection using an HDMI cable (type A, 19-pin) to the HDMI socket of the TV set. Log in the HDMI connection in the connection wizard (TV menu - Connections - New devices/modifications).

Select the HDMI connection in the AV selection.

`0 AV`   Call AV selection

| AV selection | | | | | | |
| VGA | HDMI/DVI | ⊕ ↔ | COMP. IN | VIDEO | VCR | DVD | AVS |

Select HDMI/DVI socket and use ...

OK   to call.

Start playback on the device connected with HDMI connection.
The set automatically recognises and sets the best possible format for the video. If transmission occurs via a DVI/HDMI adapter cable, then you can feed in the appropriate analogue audio via the audio input sockets AUDIO IN L/R on the TV set. The sound is reproduced via the TV speakers.
If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the HDMI/DVI socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36. The digital audio signal of the DVI audio source is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the external amplifier.

Set geometry: as described for the VGA/XGA connection.

VGA/XGA connection

HD ready

You can connect a PC or a Set Top Box (STB) and therefore use the TV screen as an output device.
Connect the PC/STB to the VGA/XGA socket on the TV using a VGA cable.

When connecting to a PC, first set one of the following screen resolutions on your PC.
800x600 60Hz (SVGA)
1024x768 60Hz (XGA).
When a Set Top Box is connected, set the following screen resolutions according to the options of the Set Top Box:
720x576i (PAL), 720x480i (NTSC), 720x480p (60 Hz)
720x480i, 720x 576i (SDTV – standard modi for STB) 720x576p (50 Hz)
1280x720p, 1920x1080i (HDTV modi)
Select the VGA/XGA connection in the AV selection.

`0 AV`   Call AV selection

| AV selection | | | | | | |
| AVS | VGA | ⊕ ↔ | HDMI/DVI | COMP. IN | VIDEO | VCR | DVD |

Select VGA socket and use ...

OK   to call.

Start the connected device.

Set geometry

Call the TV menu using the **MENU** button, select "Geometry" using ◀ ▶ and set:
If the picture is not positioned correctly, you can move the picture horizontally and vertically here so that it fills the whole screen. You can also set the phase position so that the picture appears in the best possible quality.

Setting colour standard

Call the Picture menu using the ▭ button. Select "Colour standard" using ◀ ▶ and make your selection.
The colour standard for a connected PC is RGB.
In Set Top Boxes, you usually set Ycc as a colour standard. Other formats such as Ypp or RGB can also be output. Please consult the operating instructions of the device connected.
If the wrong standard is selected, you will recognise this by the wrong colours in the display.

Operating additional equipment

Sound from PC or Set Top Box

Feed the analogue audio signal from the PC or the STB to the sockets AUDIO IN L/R on the TV via a cinch cable. The sound is reproduced via the TV speakers. If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the VGA/XGA socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36. The digital audio signal of the Set Top Box is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the amplifier.

Component video connection

HD ready

If you have a DVD player/recorder with Component OUT connections, you can connect it to the SD/HD-COMPONENT IN sockets of the TV instead of to the Euro-AV sockets. The connecting cable with three cinch plugs each transmits picture information. The playback is of a better quality than via the Euro-AV socket. You need another cinch cable for the analogue sound transmission. Connect the analogue audio outputs of the DVD player to the AUDIO IN L/R sockets on the TV set. The sound is reproduced via the TV speakers.

If you want to use the digital sound of the DVD player with a digital audio amplifier connected to the TV, make a connection between AUDIO DIG OUT of the DVD player and AUDIO DIGITAL IN of the TV set.

Log in the component/device in the connection wizard:

Assign the AUDIO DIG IN input here to the COMP. IN socket, provided a digital audio amplifier is also connected. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36.

Set the signal at the component input in the connection wizard: Set to "Automatic" first. If the signal is not reproduced when playback is started, consult the operating instructions of the DVD device connected to find out what screen resolution is possible (SDTV, HDTV or ProScan).

Select the component connection in the AV selection.

| 0 AV | Call AV selection |

AV selection
MI/DVI	COMP. IN	VIDEO	VCR	DVD	AVS	VGA	HDMI/DV

Select COMP. IN sockets and use ...

to call.

Start playback on the connected device.

Set geometry and colour standard: as described for the VGA/XGA connection.

Operating additional equipment

Operating other Loewe devices with the RC3 remote control

Using this remote control, you can operate additional devices from Loewe.

Use the rotary switch to select VCR, TV or a Set Top Box. The following are preset at the factory: Loewe VCRs, Loewe TV sets and for STBs (Set Top Box) in Germany, the common d-box.
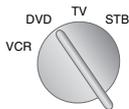
Use the driver buttons in the TV and STB position for VCR, DVD or Digital Recorder

You can switch over the six drive buttons
(◄◄ , ► , ►► , ● , ▮▮ , ▪), both for the TV and for the STB, to control a VCR or DVD player/recorder (the control of the integrated "Digital Recorder Plus" is preset at the factory):

First set the switch to the main function TV or STB.
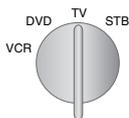
Then press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the the numbers 988 in sequence. The indicator will again blink two times.

Now set the switch to the desired function for the drive buttons:
to DVD, VCR or to TV, if the digital recorder is to be operated.

Press the **# PIP** button to complete the setting. The indicator will blink two times.
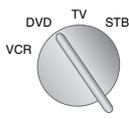
Setting the remote control to operate devices from other manufacturers

You can switch over the remote control for other VCRs, DVD players and Set Top Boxes if the infrared code for the device type is listed in the code list or if it is included in the code memory of the RC3.

Even if the manufacturer of the device is listed in the code list, it may not be possible to operate that device using the Loewe remote control.

Setting the remote control using code entry

Search for the code number for your device in the code list (see as of pages 48-52). The list is arranged according to device type – DVD, VCR, STB – and alphabetically according to manufacturer. Next to the manufacturer's name, you will find one or more code numbers.
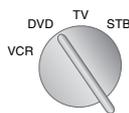
Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

Press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the four numbers in sequence that you found in the code list (e.g. 0539 for Loewe DVD player).

After each number you enter, the indicator will blink once, after the last number it will blink twice. If the number was incorrect, the indicator will remain lit longer. The code number was not accepted. If the code was accepted with two blinks, you can test the functions of the device you just programmed.

If the device cannot be operated or can only be operated poorly, repeat the code entry with the next code from the list. If there are no other codes specified for this manufacturer, try it using the code suggestions from the remote control.

Setting the remote control using the suggestions from the remote control

Switch the device **on** that you want to switch over to the remote control. Standby mode is not enough.
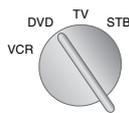
Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

Press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the the numbers 991 in sequence. The indicator will blink once after each number entered.

Press the **# PIP** button to select the first code.

Point the remote control toward the device you want to switch over to the remote control. Observe that device.

Now press the button ► (Play) or **On/Off** on the remote control.
Wait a moment for the device to react. If the device does not react, then that was not the right code. Press the **# PIP** button again to call the next code.

Press the button ► (Play) or **On/Off** again.

If the device reacts, press the ★**EPG** button to adopt the code.

Operating additional equipment

Using the RC3 remote control to operate a DVD recorders or DVD player
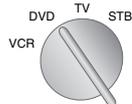
Set the rotary switch to "DVD".

The infrared code and the functions are preset at the factory for the Loewe DVD recorder Centros 21x2 HD.

In the DVD mode, it is possible to operate the Loewe DVD recorders Centros 1102, 1172, 2102HD, 2172HD, and the DVD players Xemix 6122DO, 8122DA and 6222PS.

Functions for the Loewe DVD recorders (Centros 1102, 1172, 2102, 2172)

Change-over switch for operation of TV, VCR, DVD or Set Top Box

Sound off/on

Set marker / in menu: highlights title/chapter

Select camera position

Timer recording menu / timer recording list menu on

Call AV selection (AV1-AV4,DV,TV)

Main menu on

User interface of loaded DVD on /in menu: switch between original and playlist

Status display (TV, DVD-RW) /in menu: cofirm the menu selection in menu: select / adjust

ShowView menu on

Insert a new chapter marker

Press short during playback: Start of current chapter /previous chapter

Press short during pause: slow motion back

Press long during playback: search back

Record

Playback

Pause /single frame

Switch DVD player on/off – in standby

Marker search menu on

Repeat

Zoom

in menu: enter digits / in stop mode (menu off): select programme (TV)

Picture in picture (PIP) on/off

Close menu

Info / menu bar on/off

Next chapter / in stop mode (menu off): next programme

V−/V+ volume quieter/louder

Start of current chapter / previous chapter /in stop mode (menu off): previous programme

Audio/Foto Card Reader operation on/off

Enter a new title thumbnail / switch between photo and MP3/WMA operation

Press short during playback: next chapter

Press short during pause: slow motion forward

Press long during playback: search forward

Stop

Using the RC3 remote control to operate a VCR

Set the rotary switch to "VCR".

The infrared code and the functions for a Loewe VCR are preset at the factory.

In VCR mode, the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H, 4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.
For other Loewe equipment than that listed, please use the original remote control.

Functions for Loewe VCR (VV 8106, 8136, 8176)

Change-over switch for operating of TV, VCR, DVD or Set Top Box

Sound off/on (mute)

Display/close Timer list

Display/close ShowView timer Menu

Switch to Long Play /Standard Play

Call AV selection (TV)

VCR menu on /in menu: back

P+/P− Select station up/down

Reverse play /in menu: select/set

V−/V+ volume quieter/louder

▲ / ▼ at stop: Program up/down on playback: manual tracking in the menu: Select position

Rewind /search backwards

Start recording

Pause (still frame) /frame-by-frame advance

Switch recorder on/off – in standby

Select picture and sound sour

Select video and audio input

Set time display to 0:00:00

Select station directly /in menu: enter digits

Set picture format (TV)

Status display on/off in the menu: Close menu

Status display on/off

on playback: Slow motion forward /in the menu: select/set or to the next menu

Call up station list /in menu: call up/confirm

Fast forward /search forwards

Start playback

Stop tape

Operating additional equipment

Rotating the TV set for Spheros R 32/37

Spheros R 32/37 have a connection for a rotating stand control.
If the TV set is mounted on a motor unit, you can use the remote control to adjust it to your seating location accordingly.
You can fix the position of the TV set when the set is switched off.

Rotate the TV set when no menu or PIP is being displayed.

Note: Make sure there are no objects in the TV's area of rotation that might obstruct the rotation or be knocked down due to the rotating motion.

Setting the position of the TV set when switched off

You can set the position the TV set is to assume once it is switched off (switch-off position must be activated for this):

MENU   Call up the TV menu

TV menu				INFO	END
Picture	Sound	Recording	Connections	Settings
Picture adjustment	...				

Select "Settings"

TV menu				INFO	END
...ections	Settings	Picture	Sound	Recording	Conne
Channels	...				

under that, select "Miscellaneous"

TV menu				INFO	END
Settings					
...nguage	Miscellaneous	Channels	Parental lock	Timer functions	Lan
On-screen displays	...				

under that, select "Rotate TV"

TV menu				INFO	END
Settings					
Miscellaneous					
Rotate TV	On-screen displays	Time and date	D
Activate switch-off position	...			

under that, select "Activate switch-off position"

TV menu			INFO	END
Settings				
Miscellaneous				
Rotate TV				
Activate switch-off position	Set switch-off position			
no	...			

under that, select "yes"

TV menu		INFO	END
Settings			
Miscellaneous			
Rotate TV			
Activate switch-off position			
yes	no		
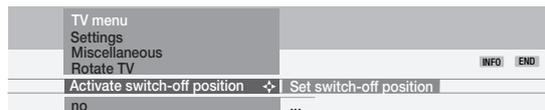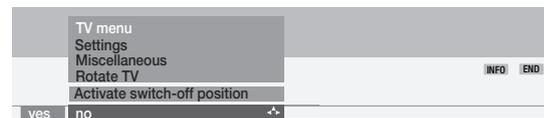
go up and select "Set switch-off position"

TV menu		INFO	END
Settings			
Miscellaneous			
Rotate TV			
Set switch-off position	OK	Activate switch-off po
0			

use **OK** to go down and use the ◄ ► arrow buttons to set the desired switch-off position. The TV set rotates in the process.

TV menu		INFO	END
Settings			
Miscellaneous			
Rotate TV			
Set switch-off position			
0			
OK Adopt			

use **OK** to save the position set.

END   Close the menu

If the TV set is switched off using the blue on/off button on the remote control, the set will rotate to the position defined.
When it is switched back on, it returns to the position last set manually.

What to do, if ...

Problem	Possible cause	Remedy
The "Recording" menu point is not displayed in the TV menu.	No video or DVD recorder logged in.	Log in the video or DVD recorder in the connection wizard and connect the device.
"Connections" cannot be called in the TV menu (deactivated)	A time recording is in progress.	Wait until the timer recording has ended or delete the timer.
The control of the Loewe video recorder and the timer do not work or do not work properly.	a) The Digital Link function is not activated or not possible in the recorder. b) Euro-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the video recorder). b) Connect the Euro-AV cable. c) Log in recorder.
General problems with connecting external equipment via an AV input.	a) The device is not logged in to the connection wizard or is connected differently than is shown in the connection diagram. b) The AV norm is set incorrectly. c) The AV signal is set incorrectly.	a) In the connection wizard (TV menu – Connections – New devices/modifications), compare the connection diagram with the actual installation and connect as shown, if necessary. b) Set the norm correctly. c) Set the AV signal correctly. If "Automatic" is set for AV norm or AV signal, this can lead to errors for signals which do not conform to the norm. Then the norm and the signal are to be set according to the specifications in the operating instructions of the external device.
A decoder connection does not function or is faulty.	a) The signal is not decoded because the wrong decoder stations are selected in the connection wizard. b) The sound is missing in decoder mode because the wrong decoder sound is assigned in the connection wizard.	a) Follow the instructions in the connection wizard again (TV menu – Connections – New devices/ modifications) and select the corresponding decoder station. b) Follow the instructions in the connection wizard again and select the right audio source (decoder, TV or autom.), see instructions of the decoder.
All menus appear in the wrong language.	Menu language has been set incorrectly.	Set your menu language: Press the **INFO** button in TV mode (index). Select the first index item and call it by using **OK**. Then select the language and confirm with **OK**.

What to do, if ...

Problem	Possible cause	Remedy
Digital Link Plus does not function.	a) Euro-AV cable is not fully wired (pin 10 not wired). b) Some recorders can only adopt stations during the initial installation of the TV set. c) All or some of the terrestrial and cable stations are stored on station storage locations ≥ 99.	a) Replace the Euro-AV cable. b) Restore the recorder to the as-delivered state (see recorder's operating instructions). c) Rearrange the terrestrial and cable stations so that they fall between 1 and 99.
Various characters are displayed incorrectly in the teletext.	The wrong character set is set in the teletext menu.	Set the right character set: Teletext menu - Settings - Character set: standard or the appropriate character set.
No sound via external digital audio amplifier.	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG). b) TV set and external digital audio amplifier are not connected.	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations, switch language/sound selection (**green** coloured key) to Stereo on the TV set in the status display (**END**). b) Connect Digital-Out from the TV set to a Digital-In of the external digital audio amplifier and select the appropriate input to this.
Device on mounted motor unit does not rotate (only Spheros R 32/37).	Motor unit and connection for rotating stand control are not connected to each other.	Use related cable to connect socket of motor unit to interface of rotating stand control (see assembly instructions for motor unit).

Technical data

General data

Type	Spheros R 26	Spheros R 32	Spheros R 37
Versions DVB-T CI Versions DVB-T/C CI Versions DVB-T/C CI Versions DR+ DVB-T/C CI	65435x27 - 65435x87 -	65436x27 65436x84 - 65436x47	65437x27 65437x84 - 65437x47
Set dimensions without stand (ca. cm WxHxD) Dimensions with stand (ca. cm WxHxD)	68,4x50,7x10,8 68,4x56,1x35,0	84,5x58,5x9,0 84,5x64,0x40,0	99,0x67,5x9,0 99,0x71,6x40,0
Set weight without stand (ca. kg) Set weight with stand (ca. kg)	18,5 20,5	34,5 36,5	37,0 39,0
Display Picture diagonal (cm)/picture format Resolution Contrast ratio	HD-LCD technology 66/16:9 1366x768 800:1	HD-LCD technology 80/16:9 1366x768 800:1	HD-LCD technology 94/16:9 1366x768 800:1
Angle of viewing horizontally/vertically	170°	170°	170°
Power consumption (IEC 62087) in operation (watt) in standby (watt)	70 < 3	85/100 < 3	100/115 < 3
Ambient temperature (Celsius)	5° − 35°		
Relative humidity (not condensing)	20 − 80%		
Barometric pressure	800 − 1114 hPa (0 − 2000 m over NN)		

The code number 3001 cancels out a secret code and with it the child lock. Please keep in a safe place.

Technical data

Electrical data

Chassis name	L 2650
Power supply	220 V -240V/50- 60 Hz
Tuner VHF/UHF/ cable	
Hyperband 8 MHz	41 MHz to 860 MHz
Station storage locations	430 / for DVB 1680
TV standards	B/G, I, L, D/K, M, N
Colour standard	SECAM, PAL, NTSC, NTSC-V, PAL-V (60Hz)
Sound standard	Mono/Stereo/Dual-channel Nicam B/G, I, L, Virtual Dolby
Rated audio power	2 x 20 watt
Analogue Teletext	TOP/FLOF Level 2.5
Page Memory	3000
Digital Teletext (in UK only)	MHEG-5

Connections

Jack 3.5mm		Headphones 32- 2000 ohm
Mini-DIN (AVS)	Video IN	Y/C (S-VHS/Hi 8)
Cinch (yellow)	Video IN	CVBS (VHS/8 mm)
Cinch (white/red) Audio IN		L/R
IEC socket 75 Ohm/5 V/80 mA		Antenna/cable/analogue PIP [1] /DVB-T/C
F socket 75 Ohm 13/18 V/350 mA [2]		ANT-SAT
EURO-AV 1	Video IN	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
	Video OUT	CVBS (VHS/8 mm)
		Y/C (S-VHS/Hi 8)
	Audio IN	L/R
	Audio OUT	L/R
EURO-AV 2	Video IN	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
		RGB, YUV
	Video OUT	CVBS
		Y/C, (only with SVHS Link Plus)
	Audio IN	L/R
	Audio OUT	L/R
Cinch	Audio IN max. 2Vrms	Centre
2 x Cinch	Audio IN	L/R
2 x Cinch	Audio OUT (level adjustable in active loud speakers)	L/R
Cinch	COMPONENT IN:	Cb/Pb signal
Cinch	COMPONENT IN:	Cr/Pr signal
Cinch	COMPONENT IN:	Y signal
Cinch	Digital Audio IN (SPDIF)	Digital audio
Cinch	Digital Audio OUT (SPDIF)	Digital audio
HDMI/DVI	Digital Video/Audio IN type A 19pin	Digital video and audio
VGA/XGA	VGA/XGA IN	PC/STB video signal
Mini-DIN		Service/L-Link

[1] Analogue PIP tuner can be retrofitted.
[2] Digital satellite tuner can be retrofitted,
    Twin sat tuner can be retrofitted for sets with digital recorder.

VIRTUAL DOLBY SURROUND

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trademarks of Dolby Laboratories

Accessories

Wall holders and stands

Refer to the notes on the installations options on page 8.

PIP tuner

The PIP tuner enables picture in picture displays (PIP) for analogue terrestrial and cable reception.
You can retrofit either this PIP tuner or a digital satellite tuner.
The PIP function is possible for both retrofit models.
Retrofit not possible for Spheros R26 and UK device versions.
Loewe order no. 89442.080

Digital Satellite Tuner

You can have your TV set retrofitted with the digital satellite tuner.
You receive DVB-S stations with this tuner.
The digital satellite tuner is completely integrated in the TV set (physically and logically) and is operated by the remote control/menu control of the TV.
When you retrofi t your TV set with the digital satellite tuner, your TV set automatically has the PIP function.
You can retrofit either this digital satellite tuner or a PIP tuner.
Retrofit not possible for UK device versions.
Loewe order no. 89361.055

DVB-S Twin sat tuner
(only for sets with a Digital Recorder)

If your TV set is equipped with the Digital Recorder+, you can have it retrofitted with an integrated DVB-S twin sat tuner.
The integrated PIP DVB-T/C tuner is exchanged for the DVB-S twin sat tuner (not for Spheros R 26).
Loewe order no. 89443.080

Loewe Video Recorders

Loewe video recorders are specially adapted to Loewe TV sets in design, user guidance and technical properties. They greatly simplify daily handling of the equipment.

Loewe DVD players and recorders

The DVD players and recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

Loewe audio system Auro and the active speaker system Tremo

The interplay of a Loewe TV with a Loewe audio system and a Loewe speaker system creates an excellently coordinated home cinema system. Advantages are high operating comfort, attractive design and adapted technology.

Subject to delivery options.

Service Addresses

Australia
International Dynamics Australasia Pty Ltd.
129 Palmer Street
AUS - Richmond, Victoria 3121
Tel. 00 61 - 3-94 29 08 22
Fax 00 61- 3- 94 29 08 33
Email ekyriakides@internationaldynamics.com.au

BeNeLux
Loewe Opta Benelux NV/SA
Uilenbaan 84
B–2160 Antwerpen
Tel. 00 32 - 3- 2 70 99 30
Fax 00 32 - 3- 2 71 01 08
Email ccc@loewe.be

Denmark
Kjaerulff 1 A/S
C.F.Tietgens Boulevard 19
DK–5220 Odense SØ
Tel. 00 45 - 66 13 54 80
Fax 00 45 - 66 13 54 10
Email mail@kjaerulff1.com

Germany
Loewe Opta GmbH, Customer Care Center
Industriestraße 11
D–96317 Kronach
Tel. 0049 1801–22256393
Fax 0049 9261–99500
Email ccc@loewe.de

France
Loewe France S.A.
13 rue du Dépôt, Parc del l'Europe, BP 10010
F - 67014 Strasbourg Cédex
Tel. 00 33 - 3- 88 79 72 50
Fax 00 33 - 3- 88 79 72 59
Email loewe.france@wanadoo.fr

Greece
SOUND HELLAS S.A.
Kleanthous Str. 10
GR–54642 Thessaloniki
Tel. 00 30 - 2310 - 856 100
Fax 00 30 - 2310 - 856 300
Email sound@spark.net.gr

Great Britain
LinnSight Ltd.
PO Box 8465
UK – KA 7 2YF Prestwick
Tel. 00 44 - 12 92 - 47 15 57
Fax 00 44 - 12 92 - 47 15 54
Email helpline@linnsight.co.uk

CIS
Service Center Loewe
Petrovsky per., d. 5, str. 3 of. 17
RUS–107031 Moscow
Tel. 0 95 - 928 33 58
Fax 0 95 - 928 58 79
Email loewerus@online.ru

Israel
PL Trading (pz 2004) Ltd.
27, Aliat Hanoar St.

ISR - Givataiim 53401
Tel. 00 972 - 3 - 57 27 155
Fax 00 972 - 3 - 57 27 150
Email zeev@loewe.co.il

Italy
Loewe Italiana SRL
Lago del Perlar, 12
I–37135 Verona
Tel. 00 39 - 045 82 51 611
Fax 00 39 - 045 82 51 622
Email Edoardo.Bricchi@loewe.it

Malta
Mirage Holdings Ltd
Flamingo Complex, Cannon Road
M–Qormi
Tel. 0 03 56 22 - 79 40 00
Fax 0 03 56 21 - 44 59 83
Email s.martinelli@flamingo.com.mt

Morokko
SOMARA S.A.
377, Rue Mustapha El Maani
MA–20000 Casablanca
Tel. 00 21 22 - 2 22 03 08
Fax 00 21 22 - 2 26 00 06
Email somara@wanadoopro.ma

Norway
CableCom AS
Østre Kullerød 5
N–3214 Sandefjord
Tel. 00 47 - 33 48 33 48
Fax 00 47 - 33 44 60 44
Email roy@cablecom.no

Austria
Loewe Austria GmbH
Parkring 10
A–1010 Wien
Tel 00 43 1 / 51 633 - 31 34
Fax 00 43 1 / 51 633 - 30 32

Poland
DSV TRADING SA
Plac Kaszubski 8
PL–81-350 Gdynia
Tel. 00 48 58 - 6 61 28 00
Fax 00 48 58 - 6 61 44 70
Email market@dsv.com.pl

Portugal
Vídeoacustica
Comercio e Representacoes de
Equipamentos Electronicos S.A.
Estrada Circunvalacao, Quinta do Paizinho, Arm. 5
P–2795-632 Carnaxide
Tel. 0 03 51 - 2 14 24 17 70
Fax 0 03 51 - 2 14 18 80 93
Email office@videoacustica.pt

Sweden
Kjaerulff 1 AB
Ridbanegatan 4, Box 9076
S–200 39 Malmö
Tel. 00 46 - 4 06 79 74 00

Fax 00 46 - 4 06 79 74 01

Switzerland
Telion AG
Rütistrasse 26
CH-8952 Schlieren
Tel. 00 41 - 44 732 15 11
Fax 00 41 - 44 730 15 02
Email infoCE@telion.ch

Slowenia
Jadran Trgovsko Podjetje
Partizanska cesta 69
SL–6210 Sezana
Tel. 0 03 86 - 57 31 04 40
Fax 0 03 86 - 57 31 04 42
Email milos.zvanut@jadran.si

Spain/Canary Islands
Gaplasa S.A.
Conde de Torroja, 25
E–28022 Madrid
Tel. 0 03 49 - 17 48 29 60
Fax 0 03 49 - 13 29 16 75
Email loewe@maygap.com

South Africa
THE SOUNDLAB PTY LTD
P.O. Box 31952, Kylami 1684
Republic of South Africa
Tel. 00 27 - 1 14 66 47 00
Fax 00 27 - 1 14 66 42 85
Email loewe@mad.co.za

Czech Republic
K+B EXPERT SPOL. S R.O.
U Expertu 91
CZ - 25069 Klicany u Prahy
Tel: 0 04 20 - 2 72 12 21 11 (222)
Fax: 0 04 20 - 2 72 12 21 99 (239)
Email loewe@kbexpert.cz

Turkey
Enkay Elektronik Servis Müdürlügü
Alemdag Cad: Site Yolu No.: 10
Ümraniye/ Istanbul
Tel. 00 90 - 216 634 44 44
Fax 00 90 - 216 643 39 88
Email mhatipog@enkaygroup.com

Hungary
Basys Magyarorszagi KFT
Epitok utja 2–4
H–2040 Budaörs
Tel. 00 36 - 23 41 56 37 (121)
Fax 00 36 - 23 41 51 82
Email basys@mail.nasys.hu

Cyprus
HADJIKYRIAKOS & SONS LTD.
Prodromou 121, P.O Box 21587
CY–1511 Nicosia, Cyprus
Tel. 0 03 57 - 22 87 21 11
Fax 0 03 57 - 22 66 33 91
Email savvas@hadjikyriakos.com.cy

Codelist RC3 / Lista de códigos RC3

Loewe

DVD-Player	0539
DVD-Recorder Centros 11x2	0741
DVD-Recorder Centros 21x2	1463
STB	1127
VCR	0866

DVD

Brand	Codes				
3DLAB					0539
A-Trend					0714
Acoustic Solutions					0730
AEG				0788	0770
Aiwa				0641	0695
Akai	0790	0788	0690	0716 0713	0705
AKI					0718
Akira					0699
Alba	0717	0699	0713	0723	0695
All-Tel					0790
Amitech					0770
Amstrad					0713
Apex Digital					0672
Audiosonic					0690
AWA					0730
Black Diamond					0713
Blaupunkt					0717
Blue Sky	0699	0695	0713	0672	0651
Boman					0783
Brain Wave					0770
Brandt				0651	0551
Bush		0699	0690	0689	0717
		0713	0818	0695 0831	0723
C-Tech					0768
Cambridge Audio					0696
Cambridge Soundworks					0696
CAT					0699
Celestial					0672
Centrex				0672	1004
Centrum					0713
cineULTRA					0699
Classic					0730
Clatronic					0788
Clayton					0713
Coby					0730
Conia					0672
Crown			0770	0651	0690
Cybercom					0831
CyberHome				0714	0816
Cytron			0716	0651	0705
Daewoo			0770	0705	0714
Daewoo International					0699
Dansai				0770	0783
Dantax					0723
DEC				0699	0818
Decca					0770
Denon				0490	0634
Denver				0699	0788
Denzel					0665
Diamond			0651	0768	0723
Digihome					0713
digiRED					0717
Digitrex					0672
DiK					0831
Dinamic					0788
DiViDo					0705
DK digital					0831
DMTECH				0783	0790
Dragon					0831
Dual	0665	0651	0713	0730	
		0783	0790	0831	
E-Boda					0723
Eclipse					0723
Electrohome					0770
Elin					0770
Elta	0690	0770	0788	0790	
Emerson				0591	0705
Enzer					0665
Ferguson					0651
Finlux			0741	0770	0783
Firstline					0651
Funai					0695
GE					0717
Global Solutions					0768
Global Sphere					0768
Go Video					0783
GoldStar				0591	0741
Goodmans	0651	1004	0790	0690	
		0783	0723	0818	
Graetz					0665
Grandin					0716
Grundig	0539	0695	0651	0775	
	0705	0790	0713	0670	0723
Grunkel					0770
H&B				0818	0713
Haaz					0768
Hanseatic					0741
HCM					0788
HDT					0705
HE					0730
Henß					0713
Hitachi			0664	0665	0573
Hiteker					0672
Home Electronics					0730
Hyundai					0783
Ingelen					0788
ISP					0695
Jeken					0699
JMB					0695
JVC	0623	0539 0503	1901	1940	
Karcher					0783
Kendo					0699
Kenwood			0534	0490	0737
Kiiro				0718	0770
Kingavon					0818
Kiss					0665
Koda					0818
Koss					0651
Lawson			0705	0716	0768
Lecson					0696
Lenco	0699	0651	0770	0818	
Lenoxx					0690
Lexia					0699
LG			0591	0741	1906
Lifetec					0651
Limit				0716	0768
Loewe				0539	1922
LogicLab					0768
Logix				0705	0783
Lumatron					0705
Luxman					0573
Luxor					1004
Magnavox				0503	0818
Magnex					0723
Manhattan					0705
Marantz					0539
Mark					0713
Matsui				0651	0695
MBO				0690	0730
MDS					0699
Medion		0651	0783	0716	0831
Memorex					0831
Metz				0571	0713
MiCO					0723
Microboss					0718
Micromaxx					0695
Micromedia				0503	0539
Micromega					0539
Microsoft					0522
Microstar					0831
Minax					0713
Minoka					0770
Mitsubishi					0713
Mizuda					0818
Monyka					0665
Mustek					0730
Mx Onda				0651	0723
NAD					0741
Naiko					0770
Neufunk					0665
Nordmende					0831
Omni				0690	0699
Onkyo				0627	0503
Optimus					0571
Orava					0818
Orion					0695
Oritron					0651
P&B					0818
Pacific	0768	0790	0713	0831	
Palladium					0695
Palsonic				0689	0672
Panasonic				0490	1908
Panda					0783
Philips	0539	0646	0503	1914	
Phonotrend					0699
Pioneer	0571	0631	1900	1902	
Pointer					0770
Powerpoint					0718
Proline	0651	0672	0790	1004	
Proscan					0522
Prosonic					0699
Provision					0699
Radionette					0741
Raite					0665
Rank Arena					0718
RCA				0522	0651
REC				0689	0490
Red Star				0770	0788
Reoc					0768
Revoy					0699
Roadstar	0699	0690	0689	0713	0818
Rotel					0623
Rowa					1004
Saba					0651
Sabaki					0768
Salora					0741
Samsung				0573	0490
Sansui	0695	0716	0768	0723	0770
Sanyo				0670 0695	0790
Scan					0705
ScanMagic					0730
Schaub Lorenz				0788	0770
Schneider	0651	0783 0705	0790	0788	
Scientific Labs					0768
Scott				0718 0651	0672
SEG				0665 0713	0768
Shanghai					0672
Sharp				0630	0695
Sherwood				0717 0741	0633
Shinco					0717
Silva					0788
SilvaSchneider					0831
Singer			0690	0716	0723
Skymaster				0730	0768
Slim Art					0770
SM Electronic			0730	0768	0690
Smart			0718	0705	0713
Sonashi					0716
Sony	0533	0573	1903	1904	
Soundmaster					0768
Soundmax					0768
Soundwave					0783
Standard				0651	0768
Starmedia					0818
Sunwood					0788

Brand	Codes
Supervision	0730 0768
SVA	0672
Synn	0768
Tandberg	0713
Tatung	0770
Teac	0717 0741 0571 0768 0591 0790
Technics	0490 1908
Technika	0770
Techwood	0713
Tensai	0690 0651
Tevion	0651 0768
Theta Digital	0571
Thomson	0551 0522
Tokai	0665 0788
Tokiwa	0705 0716
Toshiba	0503
Umax	0690
United	0788 0730 0790
Universum	0741 0713 0591
Venturer	0790
Vieta	0705
Voxson	0730 0831
Walkvision	0717
Welkin	0831
Wesder	0699
Wharfedale	0696 0723
Windy Sam	0573
XBox	0522
XLogic	0770 0768
XMS	0788 0689
Yamada	1004
Yamaha	0490 0539 0646
Yamakawa	0665 0710 0765
Yelo	0718
Yukai	0730
Zenith	0503 0591 0741

VCR

Brand	Codes
Adyson	0072
Aiwa	0307 0000 0209 0348 0352 0037 0041
Akai	0106 0315 0041 0352 0240
Akashi	0072
Akiba	0072
Akura	0072 0041
Alba	0278 0072 0209 0352 0000 0315 0348 0081
Allorgan	0240
Allstar	0081
Amstrad	0000 0278 0072
Anitech	0072
Ansonic	0000
Aristona	0081
ASA	0037 0081
Asuka	0072 0037 0081 0000 0038
Audiosonic	0278
AVP	0352 0000
AWA	0037 0278 0642 0043
Baird	0106 0278 0104 0041 0000
Basic Line	0278 0209 0072
Bestar	0278
Black Diamond	0642 0278
Black Panther	0278
Blaupunkt	1562 0226 0081
Blue Sky	0037 0209 0348 0072 0352 0278 0000
Bondstec	0072
Brandt	0041 0320
Brandt Electronique	0041
Brinkmann	0209 0348
Bush	0072 0278 0315 0209 0352 0000 0348 0081
Carena	0209 0081
Carrefour	0045
Casio	0000
Cathay	0278
CGE	0041 0000
Cimline	0072 0209
Clatronic	0072 0000
Combitech	0352
Condor	0278
Crown	0278 0072
Cyrus	0081
Daewoo	0278 0642 0209 0348 0352 0045
Dansai	0072 0278
Daytron	0278
de Graaf	0042 0081 0104 0048
Decca	0000 0041 0081 0067 0348 0209
Deitron	0278
Denko	0072
Diamant	0037
Domland	0209
Dual	0041 0081 0278 0000
Dumont	0000 0081 0104
Elbe	0278 0038
Elcatech	0072
Elin	0240
Elsay	0072
Elta	0072 0278
Emerson	0072 0045 0000
ESC	0278 0240
Etzuko	0072
Fast	0897
Ferguson	0041 0320 0000 0278
Fidelity	0000 0072 0240
Finlandia	0104 0081 0042 0000 0048 0384
Finlux	0000 0081 0104 0042
Firstline	0072 0209 0348 0043 0037 0045 0042 0278
Fisher	0047 0104 0038
Flint	0209
Frontech	0072
Fujitsu	0000
Funai	0000
Galaxi	0000
Galaxis	0278
GE	0320
GEC	0081
General Technic	0348
Genexxa	0104
Goldhand	0072
GoldStar	0037 0000
Goodmans	0000 0072 0240 0278 0037 0081 0348 0209 0352 0642
Graetz	0041 0104 0240
Granada	0104 0048 0081 0240 0037 0226 0042 0000
Grandin	0072 0037 0000 0278 0209
Grundig	0081 0347 0226 0320 0348 0072
Haaz	0348 0209
Hanimex	0352
Hanseatic	0037 0209 0278 0081 0038
Harwood	0072
HCM	0072
Hinari	0072 0209 0352 0041 0278 0240
Hisawa	0209 0352
Hischito	0045
Hitachi	0042 0041 0000 0240 0081 0104 0384
Hornyphone	0081
Hypson	0072 0209 0278 0352
Imperial	0000 0240
Ingersoll	0209 0240
Inno Hit	0240 0278 0072
Interbuy	0037 0072
Interfunk	0081 0104
Internal	0278
International	0278 0037
Intervision	0000 0278 0037 0209 0348
Irradio	0072 0037 0081
ITT	0106 0041 0384 0104 0240
ITT Nokia	0048
ITV	0278 0037
JMB	0209 0352
Joyce	0000
JVC	0041 0067 0384
Kaisui	0072
Kambrook	0037
Karcher	0278
Kendo	0106 0209 0315 0348 0072 0037
Kenwood	0041 0038
KIC	0000
Kimari	0047
Kneissel	0352 0209 0348 0037
Kolster	0209 0348
Korpel	0072
Kuba	0047
Kuba Electronic	0047
Kuwa	0226
Kyoto	0072
Lenco	0278
Leyco	0072
LG	0037 0000 0278
Lifetec	0209 0348
Loewe	0081 1562 0226 0866 0037
Logik	0240 0072 0106 0209
Lumatron	0278
Luxor	0106 0043 0072 0104 0047 0048
Magnavox	0081
Manesth	0072 0045 0081 0209
Marantz	0081 0038 0209
Mark	0278
Matsui	0209 0348 0037 0240 0352 0000
Mediator	0081
Medion	0209 0348 0352
Melectronic	0000 0037 0038
Memorex	0104 0000 0037 0048 0047
Memphis	0072
Metz	1562 0347 0081 0226 0037
Micormay	0348
Micromaxx	0209
Migros	0000
Mitsubishi	0043 0067 0081
Multitec	0037
Multitech	0000 0072 0104
Murphy	0000
Myryad	0081
NAD	0104
National	1562 0226
NEC	0041 0038 0067 0104 0037
Neckermann	0041 0081
Nesco	0072 0000 0352
Neufunk	0209
Nikkai	0072 0278
Nokia	0104 0106 0315 0041 0278 0240 0048 0042 0081
Nordmende	0041 0384 0320 0067
NU-TEC	0209 0348
Oceanic	0000 0048 0106 0081 0104 0041
Okano	0315 0209 0348 0072 0278
Orbit	0072
Orion	0209 0352 0348
Orson	0000
Osaki	0000 0037 0072
Osume	0072
Otake	0209
Otto Versand	0081

Palladium	0072	0315 0037 0041 0209		
		0240 0348 0432		
Palsonic		0072 0000		
Panasonic		1562 0226		
Pathe Cinema		0043		
Pathe Marconi		0041		
Perdio		0000 0209		
Philco		0038 0072		
Philips		0081 0384		
Phoenix		0278		
Phonola		0081		
Pioneer	0067	0081 0042		
Portland		0278		
Prinz		0000		
Profitronic		0081 0240		
Proline		0000 0320		
Prosco		0278		
Prosonic	0209	0278 0000		
Protech		0081		
Provision		0278		
Pye		0081		
Quasar		0278		
Quelle		0081		
Radialva	0037	0072 0081 0048		
Radiola		0081		
Rank		0041		
Reoc		0209 0348 0278		
Rex		0041 0384		
RFT		0072		
Roadstar	0240	0072 0037 0278		
Royal		0072		
Saba		0041 0320 0384 0278		
Saisho		0209 0348		
Salora		0043 0106 0104		
Samsung		0240 0432		
Sansui	0041	0067 0106 0072 0348		
Sanyo	0104	0047 0048 0067		
Saville	0352	0278 0240		
SBR		0081		
Scan Sonic		0240		
Schaub Lorenz	0041	0104 0000 0106		
		0315		
Schneider	0072	0000 0037 0081 0278		
		0240 0042 0897		
Seaway		0278		
SEG	0072	0240 0278 0642 0081		
SEI		0081		
Sei-Sinudyne		0081		
Seleco		0041 0384 0037		
Sentra		0072		
Setron		0072		
Sharp		0048 0037 0569		
Shintom		0072 0104		
Shivaki		0037		
Siemens	0037	0104 0081 0320 0347		
Siera		0081		
Silva		0037		

Silver			0278
Singer			0045
Sinudyne		0081	0209
Smaragd			0348
Sonitron			0047
Sonneclair			0072
Sonoko			0278
Sonolor			0048
Sontec		0037	0278
Sony		0032	0106
Soundwave		0037 0209	0348
Ssangyong			0072
Standard			0278
Starlite		0037	0104
Stern			0278
Sunkai		0209 0348	0278
Sunstar			0000
Suntronic			0000
Sunwood			0072
Supra		0037	0240
Symphonic		0000	0072
T+A			0226
Taisho			0209
Tandberg			0278
Tashiko	0000 0048 0240	0081	0037
Tatung	0000 0041 0081	0048	0043
		0209 0348	0352
Teac	0072 0041 0000	0278	0642
		0037 0081	0307
TEC			0278 0072
Tech Line			0072
TechniSat		0348	0209
Teleavia			0041
Telefunken		0041 0320 0384	0278
Teletech		0072 0278	0000
Tenosal			0072
Tensai		0000 0037	0072
Tevion		0348	0209
Thomson	0320 0041 0067	0384	0278
Thorn		0041 0104	0037
Thorn-Ferguson			0320
Tokai	0072 0037 0041		0104
Tokiwa			0072
Topline			0348
Toshiba	0045 0041 0384 0043		0081
Towada			0072
Tredex			0278
Uher		0037	0240
Ultravox			0278
Unitech			0240
United Quick Star			0278
Universum	0000 0081 0240		0037
	0106 0348 0209		0104
Victor			0067
Watson	0081 0352 0278		0642
Weltblick			0037
Yamaha			0041

Yamishi		0072	0278
Yokan			0072
Yoko		0037 0072	0240
ZX			0209

SAT /STB)

@sat		1300
ABsat	0668 0123 1323	0710
ADB		0642
Adcom		0200
AGS		0668 0710
Akai		0200
Akena		0668
Alba		0455 0713
Allsat		0200 1017 1043
Alltech		0713
Alpha		0668 0200
Altai		0396
Amitronica		0713
Ampere		0396 0132
Amstrad	0847 0713 0742 0396	0132
	0882 0885 0863 0501 0795	1113
Anglo		0713
Ankaro		0713
AntSat		1017 1083
Apollo		0455
Arcon	1205 1043 0834 0132	1075
Armstrong		0200
Asat		0200
ASLF		0713
AssCom		0853
Astacom		0668 0710
Aston		1129
Astra		0607 0713
Astro	0133 0173 0501 0658	0607
	1113 1099 1100	0200
Athena		0668
Atlanta		0871
Aurora		0879
Austar	0863 0642 0497 0879	1176
Avalon		0396
Axiel		0668 0710
Axis		1111 0834
Beko		0455
Bentley Walker		1017
Blaupunkt		0173
Blue Sky		0713 0885
Boca		0132 0713
Boston		0132 0710 0668
Broco		0713
BskyB		0847 1175
BT		0668 0710
Bubu Sat		0713
Cambridge		0501

Canal Satellite		0853
Canal+		0853
Cherokee		0123 0710 1323
Chess		0157 0605 0713 1085
CityCom		1176 0115 0607 0299
Clemens Kamphus		0834 0396
Cobra		0396
Colombia		0668 0132
Columbia		0132
Columbus		0668
Comag		0132
Condor		0607
Connexions		0396
Conrad	0607 0573 0115	0501
Conrad Electronic		0607 0713
Cryptovision		0455 0795
Cyrus		0200
D-box	1127 1114	0723
Daeryung		0396
Daewoo		1296 0713
Delfa		0863
Deltasat		1075
DGTEC		1242
Digatron		1294
Digenius		0299
Digiality		0607
Digipro		1105
DigiQuest		0863
Diskoverer		0605 0157
Diskovery		0668 0710
Diseqc		0710
Distratel		0084 0885 1205
Distrisat		0200
DMT		1075
DNT		0200 0396
DREAM multimedia.TV		1237
DStv		0642 0879
Echostar	0610 1169 0871 0167	0853
	1086 1200 0454 0396	0713
		0668 0511 0453
Einhell		0132 0713 0501
Elap	0713 1129 0668	0710
Elsat		0713
Elta		0200
Emme Esse		0871
Engel		1017 0713
EP Sat		0455
Eurieult		0084 0885 0882
Eurocrypt		0455
Europa	0863 0607 0501	0200
Europhon		0299 0607
Eurosky	0607 0132 0299	0115
		0114 0501
Eurostar		0607 0115
Fenner	0668 0157 0605	0713
Ferguson		0455

Brand	Codes
Fidelity	0501
Finlandia	0455
Finlux	0573 0455
Flair Mate	0713
Force	1101
Fortec Star	1017 1083
Foxtel	0879 0720 0455 0497 0795 1176
Fracarro	0871 0668
Freecom	0501 0173
Freesat	0882
FTEmaximal	0713 0863
Fuba	0396 0173 0573 0115 0299
Fugionkyo	1105
Galaxis	1111 1101 0834 0863 1176 0853 0115 0879
Garnet	1075
GF	0834 1043
GF Star	1043
GOD Digital	0200
Goldbox	0853
Goldvision	1017
Gooding	0571
Goodmans	1284 0455
Gradiente	0887
Granada	0455
Grandin	0084
Grundig	0173 0847 1150 1291 1435 0571 0750 0879 0885 0853 0501 1297 1330
Hanseatic	0605 1099 1100
Hänsel & Gretel	0132 0607
Hauppauge	1294
HDT	1011
Heliocom	0607
Helium	0607
Hirschmann	0396 0882 1113 1111 0173 0573 1085 0299 0501 0710 0607 0668
Hitachi	0455
HNE	0742 0132
Houston	0668 0396
Humax	1176 0863
Huth	0132 0607 1017 1075
Hyundai	1011 1159 1075
ID Digital	1176 0863
Imex	0084
Ingelen	0396 0882
International	0132
Interstar	1105 1017
Intervision	0628 0607
Invideo	0871
IRTE	0609
Italtel	0871
ITT Nokia	0573 0455 0723
JOK	0710
JVC	0571
K-SAT	0713
Kamm	0713
Kaon	1300
KaTelco	1111
Kathrein	0658 0249 1057 0173 1221 0200 0713 0668 0742 0123 0115 1323 0710
Kathrein Eurostar	0115
Kiton	0114
Klap	0668 0710
Konig	0607
Koscom	0834 1043
Kreiling	0658 0249 0114
Kreiselmeyer	0173
Kyostar	0132
L&S Electronic	1043
Labgear	1296
LaSAT	0607 0115 0132 0157 0299
Lenco	0713 0115 0607
Lenson	0501
Lexus	0200
LG	1075
Lifesat	0605 0299 1043 0713
Logix	1017 1075
Lorenzen	0299 1294 0607 0742 0132
Luxor	0573 0501
M&B1	0605
Manata	0710 0668 0713
Manhattan	1083 0455 0710 0668 0834 1017
Marantz	0200
Maspro	0750 0713 0173 0571
Matsui	0571 0710 0173
Max	0607
MB	0605
Mediabox	0853
Mediacom	1206
MediaSat	0501 0853
Medion	0713 0299 1043
Medison	0713
Mega	0200
Metronic	0713 1215 0084 0885 1205
Metz	0173
Micro	0607 0501 0713
Micro electronic	0713
Micro Technology	0713
Micromaxx	0299
Microtec	0713
Minerva	0571
Mitsubishi	0455
Morgan's	0200 0713 0132
Motorola	0856
Multichoice	0642 0879
Multitec	0157
Myryad	0200
Mysat	0713
Netgem	1322
Neuhaus	0501 0713 0834 0607
Neusat	0713 0834
Nikko	0713 0723 0200
Nokia	1023 1114 0751 1127 0723 0853 0573 1223 0455 1723 1310 1312
Nordmende	0455
Nova	0879
OctalTV	1294
Okano	0668
OnDigital	0751 0329 0241 0867 0133
Optex	0834
Optus	0879 0853
Orbitech	1099 1100 0200 0501 0157
Origo	0497
Ouralis	1205
Oxford	0668
Pace	0455 0847 0887 1175 0241 0867 0123 1323 0791 0795 0720 0497 0200 0853 0710 1423
Packsat	0710
Palcom	0299
Palladium	0571 0501
Palsat	0501
Panasat	0879 0615
Panasonic	0847 1104 0455 1320
Panda	0455 0607 0173 0834
Patriot	0668
Philips	0200 1114 0853 0455 0750 0710 0668 0571 0173 0133 1336
Phonotrend	0863 1017 1200
Pioneer	0329 0853 0352
Planet	0871 0396
Polytron	0396
Praxis	0511
Preisner	0132 0396 1101 1113
Premiere	0853 1114 1127 0723 1111 1176 1195 1100 0249 0658 1435
Primacom	1111
Profile	0668 0710
Promax	0455
Prosat	0628
Prosonic	0742
Pye	0571
Pyxis	0834
Quadral	0628 0668 0710 1323
Quelle	0607 0742 0115
Radiola	0200
Radix	0396 1113 0882
RFT	0200
Roadstar	0713
Rover	0628 0713
Saba	0710 0885 0115 0607
Sabre	0455
Sagem	0820 1114 1253
Samsung	0863 1243 1343 0853 1206 1017 1293 1292
SAT	0501
Sat Control	1300
Sat Partner	0501
Sat Team	0713
Satcom	0605 0607
Satec	0713 0834
Satline	0628
Satstation	1083
Schneider	0710 0668 0157 1206
Schwaiger	0605 0157 0607 0885 1111 0132 1075
SCS	0115 0299
Seemann	0396
SEG	0605 0742 0114 1087
Seleco	0871
Septimo	1205 0885
Siemens	0173
Skantin	0713
Skinsat	0501
SKR	0713
Sky	0847 0856 0887 1014
SKY+	1175
Skymaster	0713 0605 0157 1200 1085 1075 0628
Skymax	0200
SkySat	0157 0605 0713
SL	0132 0742
SM Electronic	0157 0713 1200 1075 1085
Smart	0132 0299 1101 0882 0396 1113 0115 0713
Sony	0282 0847 0853 0455
SR	0132
Starland	0713
Strong	0879 0853 1105 1159 1300
Sunsat	0713
Sunstar	0132
Tantec	0455
Tatung	0455
Teac	1322
Tecatel	1200
TechniSat	0200 1099 1100 1195 0501 1322
Technosat	1206
Technowelt	0607 0885
Techsan	1017
Techwood	0114
Telasat	0605 0115 0607
Teleciel	1043
Telecom	0713
Telefunken	0710
Teleka	0396 0750 0501 0607 0834
Telesat	0605 0607
Telestar	0501 1099 1100 0114 0200 0157
Teletech	0114
Televes	0455 0501 0132

Codelist RC3 / Lista de códigos RC3

Thomson	0455	0713	0853	0115	0607
	1291	0820	0668	0710	1046
Thorn					0455
Tokai					0200
Tonna	0455	0668	0501	0713	0834
Topfield					1206
Toshiba					0455
TPS				0820	1253
Triasat					0501
Triax	0501	0115	0200	0396	0713
	0853	0114	1296	1291	0132
Turnsat					0713
Twinner				0132	0713
UEC					0879
Uher					0157
Unisat					0200
Universum		0173	0571	0607	0299
			0115	0742	1087
Van Hunen					0299
Variosat					0173
Ventana					0200
Vestel					0742
VH-Sat					0299
Viasat			1323	1023	0820
Visionic					1105
Visiosat				0710	0713
Wetekom			0157	0605	0501
Wewa					0455
Wisi	0173	0396	0299	0455	0501
				0607	0834
Worldsat		0710	0114	0123	0668
XCOM				0123	0668
XSat			0668	0713	0123
Xtreme					1300
YES					0887
Zehnder	1075	0742	0114	0115	0419
Zenith					0856
Zeta Technology					0200
Zinwell					1176

NTL Cabletell		0276
Ono		1068
Optus	0276	1060
Pace	1068	1060
Philips	0817	0286
PVP Stereo Visual		0003
Sagem		0817
Tele+1		0443
Telepiu		0443
Tudi		0286
United Cable		0003
Visiopass		0817

Cable Box (STB)

Austar		0276
BT		0003
Canal Plus		0443
Comcrypt		0443
Decsat		0423
Filmnet		0443
France Telecom		0817
General Instruments		0276
Jerrold	0003	0276
Kabelvision		0003
Macab		0817
Melita		0003
MNet		0443
Mr Zapp		0817
Noos		0817